

# International Abstract of Surgery

SUPPLEMENTARY TO

# Surgery, Gynecology and Obstetrics

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Volume LVIII

January to June 1934

Published by The Surgical publishing company of Chicago 54 east edge street chicago

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THE SURGICAL PUBLISHING COMPANY
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# INTERNATIONAL ABSTRACT OF SURGERY

JANIJARY 1934

# COLLECTIVE REVIEW

# THE RECENT LITERATURE ON MALIGNANT TUMORS OF THE UTERUS

CFORGE II GARDNEP M.D. FACS AND GEORGE C FINOLA M.D. CHICAGO
F mith D parim t fOb times d Gy ec. gr A thwest U tr M.d. 15 hool

# CANCEL OF THE CURVEN

T the 1032 Congress of the American Col lege of Surgeons Franklin H Martin (1,8) sounded the following keynote for an en thusiastic symposium on cancer Carcinoma is curable by the use of well known and established methods of treatment Martin is convinced that one third of the 150 000 cancer deaths per year in the United States and Canada would be avoided if all cases of cancer could be diagno ed early and treated promptly He appreciates that ethical publicity on cancer cures is necessary to raise the morale both of the lasts and of the profession The August 19 1933 Issue of Collier's Weekly says The American College of Surgeons has in its files today authenticated record of 8 b40 pa tients who have b en definitely cured of cancer Many of them did not begin treatment until they were past the first stages of the disease further urges that all per ons with cancer even tho e with apparently extensive lesions be given the benefit of treatment since the progress of the diser e may be retarded or the growth may even be destroyed and a complete cute obtained 'Cros sen (48) feel encouraged about the situation because a considerable number of women includ ing those not treated until the cervical growth has reached an advanced stare are cured by the treatment available today and this a accompli hed without the high mortality that attended the treatment necessary to cute even early cases in former times

Heyman (122) prefers to express the results obtained from the treatment of cancer of the cervix in terms of absolute five year cure it the number of women who are alive and free from tecurrence five years after treatment in propor tion to the total number with the disease who applied for care Accurate follow up is essential because every patient who does not return for examination must be considered d ad from can cer Bloodgood (19) agrees that the absolute not the relative number or percentage of cures is important 'ewell (196) finds that regardless of the treatment employed clinics the v orld over report the incidence of absolute five year cure at from 20 to 30 per cent The incidence of such cure reported by individual gynecologists is as follows Adler (1 2) 10 8 per cent Bonney (24) 25 4 per cent Haupt (113) 29 1 per cent Hev man (121 122) 206 per rent Holzbach (131) 35 5 per cent Kammiker (137) 27 9 per cent Lacassagne (164) 6 per cent Lynch (172) 20 3 per cent \enell (196) 22 3 per cent I hillip ( 06) 65 per cent Volt. (2,5 2,6 277 278) 24 per cent and Ward (282) 25 9 per cent

According to Schiller (36) only carlier diagnosis and more prompt treatment will greatly improve the results in cervical cancer (raves (93) recognized that cancer of the cervix is frequently cured by the means now a tour disposal the likeli hood of cure being directly proportional to the mediness of the attack since every cancer pas es

through a stage when theoretically it is curable According to Bloodgood (19) the important According to moodgood (19) the important means by which cures can be increased are (1) means by which cures can be increased are try education of women and physicians with regard education of nomen and physicians with regard to the protective value of periodic pelvic exam to the protective value or periodic pervice evaluations which would permit the diagnosis of nations which noute permit the diagnosis of cancer early before symptoms appear and at a cancer early before symptoms appear and at a time when the lesson is amenable to curative and it training of skilled radiologists. Description of the survey of t Refinements in the technique of administering present day therapy such as the councident sur present oal therapy such as the coincident sur geal exposure and radium treatment suggested great exproute and taumin straument suggested by Cuttls (52) will greatly increase its scope of usefulness and efficacy

Cancer of the cervix 15 most common in multip-Canter or the let let has a more common at manage and lacerations of the cert walong the cert walong and lacerations of the cert walong the ce mith the commonly associated inflammatory le sions are generally considered to be its fore Linuset2 Most of those who adjocate benedic pelvic examinations advise also the repair of acceptions and the eradication of chronic cer AUCHAIN CHONONS CHECKNONS and leucoplains as prophy latts against cancer

LICERATIONS Burses (34) Macfarlane and Howe (175) Massey (181) and Procter (18) tune (175) Masses (101), and country (10) tree inspection of the cervit at the con clusion of the third stage of labor and recommend mmediate repair of lacerations As lacerations With associated infection are a common source of chronic leucorthead discharge it is possible that obstetricians have been lax in searching for lacera tions of the cervix and making primary repairs Beall (13) Procter (218) Regard (219) others are commanded that infection and inflam mation are more important than lacerations and scars as factors predisposing to the development of cancer Wammock (282) claims that no defin the proof has yet been offered to show that cervical

cancer begins primarily in an old Jacetation CERTICITIS EROSIOV AND ECERSION (203) advocates repair of cervical tears and crad leation of inhealthy areas in the cervix because on questioning his patients with cervical cancer be learned that none of them had received such treatment He cites interesting expenences retreatment file trees interesting experiences reported by others Of 1700 cervices Guierared by Bartlett and Smith Effect developed subsequently in none of 5 902 cervices repaired or cauterized by Pemberion Cancer developed in only 5 and of 2 985 cases in which cervacial tissue ras etcised by Huggins cancer of the cervii ras subsequently reported in none Procter (18) says that eradication of disease in the certification of the certificati

means pretention of cancer this is open to

Beall (13) prefers cautery to trachelorrhaphs as a proph lactic measure. Horses (34) and 1 roctes (228) Use the cauter for erosions and minor ha example the same of the common and annual common and the common an thes but advocate endication of all lesions of the tites but anyocate eradication of au testons of the most of above of change tribation arteriorist. CETVIT Crossen (47-49) recommends prompte to moral of areas of chrome irritation particularly control of the Advance of the Ad movat in sites or entonic inflation paintenant of the child bearing penor Hisselmann (1 3 124) practices, ethirpation of

annealth areas disclosed by the colposcope unhealth areas disclosed by the corposcope and Hore (175) Phaneul (20) Vacastane and stowe (175) Enaucus (1803)
Schmitz (237) and many others arge appropriate treatment of all cervical lesions In this connection it is rather disturbing that Fusco (80 81) had only light success in producing the

cancer in experimental animals by initialing the Cancer in experimental annuals by attracting correction with Coal far Veither Could be Confirm tervia with total total for the contention of Ciol that Divious billieral the contention of Ciol that Divious billieral contention of Ciol that Divious bill oophorectom renders animals more susceptible to the development of uterme cancer CERTICAL STRICTURE CUITES (51) WINES

strongly suspect that strictural obstructions of the cerus mas sometimes be a factor in the etiology of endocervical cancer a factor in the pear that cervical strictures are of more frequent concurrence than inner overschools. etiology of endocetrical cancer Occurrence than most gynecologists base realized and that they often give use to symptoms. The suggestion that they are of etiological significance outgood that they are or enoughed significance in the development of cancer is worthy of con sideration

LEFCOPLALIA OF THE CERTIA. Marteloff (186) has found that leucoplatin develops most fre dueutly at the transition zone between squamous yathati) at the translation come occupied squamous and columnar epithelium Grossly, the plaques vary in size but are usually less than 5 mm in vary in size out are usually less than 5 mm in diameter they are white or pearl white and slightly elevated. On microscopic examination sugarty elevation of the leucoplakic zone appears more compact but it is not always thickened The epidermal papille are more prominent and there is hyperplasis of the basal laver Often a subepithebal round cell infiltration is found Estally there is an integularity of the basal zone and the transition from normal epithelium to leuroplakts is quite abrupt and distinct. Some times cell changes such as are ordinarily con

sidered significant of a malignant lesion are seen but there is no invasion of tissues Martiloff believes that the term precancer if ever permissible might be applied to kucoplakia of the cervix but that the evidence is usufficient to warrant the conclusion that lev coplain provides the basis for the subsequent development of cervical cancer

kretschmer (158) recognizes simple leucoplakia as a henigh tession but believes that cancer may be elop in it after a period of years. Leucoplakia ausers no symptoms it is found during routine vamination and the colposcope is helpful in attorious the most sati factory method of treatment flassificars (112) reports 6 acses in which the colpo cope was not necessary to diagnose the lesion in 2 an early associated carcinoma safound Probably amputation of the cervic is adequate treatment for these incipient cases.

Touraine (264) demonstrated syphilis to be the cause in two thirds of his 29 cases of leucoplakia of the cervix in 40 per cent an epithelioma de

veloped later

CACERIAA CRAICAL STUMP Any comment on cancer appearing in a cervical stump calls forth a volent protest from the advocates of routine complete (total) histerection; they contend that such cancers are avoidable. Many so called cancers in a stump already evisted but were un recognized at the time of the supravaginal histerectomy. I restum (1217) suggests that a can cer in the stump hould be considered a new rather than a pre evisting lesion if it appears later than eighteen months after the subtotal operation. I orgue (7,5) places the dividing line at two years.

Bends (17) treated 17 stump cancers in a series of \$15 cerv.rad heoplasms and Gosset and Wallon (03) found 13 am ing 227 cancers of the cerv.x Ma30 (183) reports 99 cancers in the stump observed during a period of twents veries 55 per cent of them were inst recognized three vears or more after the supreceival hy terectoms 'spencer (247) says that the large cancer chines of Lurope estimate that 3, per cent of their

cervical cancers occur in a stump

loggue (73) thinks that 1 per cent of all women ubj cied to supervaginal histerictors of fibro is will futer divelop cancer of the cervic loaks estimated the mendence of cervical cancer after subtotal histerectoms at 2 per cent. I res tim (471) at about 0 3 per cent. I result of 100 per cent. I fartham at 0 2 per cent. I fartham at 0 2 per cent. I fartham at 0 2 per cent. Spencer (247) miles the aston it hing assertion that cancer 1 too time more likely to develop in a cervical tump than in a cervical to which the corpus is still attached.

Mano (164) reports mortality statistics in operations for uterine fibroi! In 055 supravage inal histerctomies the mortality wis 12 per cent and in 1555 complete histerectomies 18 per cent. The slight difference may be explained by the fact that complete histerectomy is usually

performed on patients who are more seriously all than those subjected to the supravaginal hys terectomy. Spencer (47) contends that there is practically no difference in the death rate after complete and subjoid hysterectomy for fibroid when the operations are performed by competent surgeons. He found sacromatous changes in 66 per cent of fibroids previously unrecognized cancer of the cervix was discovered in 2 per cent and unrecognized cancer of the own surgeons. He cervix was discovered in 2 per cent and unrecognized cancer of the oripus in 1 per cent of 900 momatious uteri.

If one is convinced that more patients will die as a result of the complete operation than from cancer arising in a stump Mayo (184) recom mends caring for the cervix ten or twelve days later either by vaginal removal enucleation of the canal or destruction of the endocervix with the electric cautery Beall (13) advises against coring out the endocervix at the time of the supravaginal hysterectomy Molfino and Boero (189) recommend vaginal removal of the stump or electrocongulation of the can'l I restini ( 17) emphasizes that a supravaginal hysterectomy should not be performed in preference to a com plete hysterectomy until the cervix has been carefully studied and co-existent carcinoma i definitely ruled out

Bends (17) regards radium radiation followed by removal as the best treatment for cancer of the stump Forgue (75) finds that treatment 1 less difficult when the entire uterus is present

### PATHOLOGY

APPEARINGE OF EXPLIEST CANCERS Burger (32) reports an early cancer of the cervix dis covered during a routine pelvic examination it was a 0.75 cm blanched area which looked like powdered sugar Schiller (236) describes such miniature cancers as small white opaque and sometimes wrinkled areas. As he finds it im possible to differentiate them grossly from hyper keratotic leucoplakit he relies on the microscopic finding for a final diagnosis Graves (93) be heved that the life cycle of a cervical cancer is about twelve years, that it passes through an extended irritative stage of chronic cervicitis and that there a a shorter but protracted phase of clinical latency when the lesion may be di cov ered with the aid of biop v or may be found accidentally in tissue removed during a trachelor rhaphy Schiller (236) has observed that cancer usually starts in the unbroken squamous epithe hum of the portio near the external os and tends to spread laterally and superficially without in vading deeper tis ues. On microscopic exami nation he find a distinct line of demorcation

between normal and cancerous tissue in addition to many irregularly shaped cells with polymor phic and atypical nuclei Often he has seen large nuclei surrounded by smaller ones and dark nuclei next to light ones Usually a fen giant cells are present. Hyperchromatism and nuclear figures are most significant in the microscopic diagnosis of cancer

INVOLVEMENT OF THE VAGINA According to Keller (140 150) cancer of the cervix eventually involves the vagina in every untreated case This involvement occurs chiefly by direct extension to adiacent tissues consequently the lower vagina is involved only in late, tages. Lymphatic dissemination is of le ser import but seems to occur more frequently after \ ray and radium treatments (This last statement a not accepted by most observers) It is imperative that an on ration for cancer of the cervix include removal of a generous cuff of adjacent vagina Vaginal nodules of cancer appearing after operation probably were present and unrecognized at the time of the operation

In this connection we wish to interpolate some other observation on both primary and secondary carcinoma of the vagina Roessler (2 5) has observed metastatic cancer of the varina from adenocarcmoma of the corous uters and adenocarcinoma of the large bowel De Buoi (56) re ported a case of primary cancer of the vagina which began in the posterior wall but said that the le ion usually arises in the anterior wall Ortmann (200) reported a fatal vaginal cancer in an infant one year old and Scheffes and Craw ford (33) observed an adenocarcinoma of the cervix in a child of twenty two months Ottow (201) saw 2 circhous cancers of the va ina about a year after operations supposedly for fibroids Strachan (252 253) reported 2 primary adenocarcinomata involving the po terior wall which are quite rare Phillip (207 208) obtained cures in 15 , per cent of 83 cancers of the vagina

DISTANT METASTASES Caviglia (40) observed a supraclavicular metastasis in a case of far ad vanced cancer of the cervix and believes that the dis emination must have occu red through the thoracic duct Gunsett and Girardin (101 102) have seen 2 suburethral nodules in treated cases and interpret such lesions as evidence of retrograde metasta is Phillip (200 13) ascribes the increased incidence of bone metasta es to the fact that patients live longer after present day meth ods of treatment Rosh (226) saw only 1 bone metastasis in 2 3 patients at the Bellevue Hosital New York but Ford reported 14 from the

Iavo Choic Meyer (183) reports a case of skin

metastases few others have been described Iones (124) cont ads that radiation therapy doe not lead to busarre metastases but Leeps patients alive long enough to permit the development of secondary growths Warren (285 286) who tudied to cases at autonsy recognizes a close relationship between the degree of malignancy as e timated from the histological appearance of the primary tumor and the incidence of metas Most of Warren , patients died from im narment of renal function

PROLAPSUS Hogler (130) found only cases of cervical cancer in prolapsed uten arrong it or gynecological admissions. Cuthrie and Bache (104) and Hinselmann (125) each rep rt an addi tional case. Hogler suggests that dryress of the tissues and consequent poor nutrition may be a factor but to Guthrie and Bache the absence of acid vaginal secretion seems of more importance in this infrequent as ociation of cervical cancer and a prolapsed uterus

CERVICAL POLYPI Frankl and Ringer ( 8) studied 118 polyps microscopically and followed most of the patients for at least ix months to check the accuracy of their diagnoses. They be heve it is possible to make a certain diagno is of benign or malignant polyp from the histological picture of the lesion. In 1 per cent of their cases the polyp was complicated by cancer of the cervix consequently they caution gynecologist to refrain from assuming that a polyp is the only lesion present and urge careful study of the entire

pelvic examination

# genital tract whenever a woman is subjected to DIAGNOSI

Gynecologists and radiotherapists continuou ly emphasize the importance of earlier diagnosis and more prompt treatment in the cure of cancer of the cervix As the cause of cervical cancer is not known efforts directed toward its prevention are probably futile \ew treatments worths of con sideration may not be discovered for many years Improvements in present day therapy surgery and radium and \ ray radiation will probably he restricted chiefly to refinements in the tech mone of applying radium or of using the deep rays To ob a n a great r number of cures or arrest the growth for five years and longer treat ment must be started at an early date 10 when the growth is limited to the cervix and is amen able to the curative measures now at our disposal Hamant and Lorug (108 100) appreciate the

progress that has been made in the treatment of cervical cancer but realize that most patients report for care too late to be cured -usually after symptoms have been present for at least six months and the cancer ha spread to the pa a metria vagina bladder or rectum. They sum marize the causes of the delay and the methods to prevent it as follows

A Causes of delay in starting treatment 1 The nationt

- a Does not know the symptoms of can cer and attributes the bleeding to the change of life She is not alarmed until she notes pain weakness or loss of weight
- b Seeks advice from friends neighbors quacks Christian Scientists or followers of Coue
- c Consults a mercenary pharmacist who sells a remedy and thereby de lays examination
- d Hesitates to see a physician for fear she may be told she has cancer or that she must go to a hospital
- e Wishes to avoid loss of time from her work

The physician

- a Fails to examine the patient or does not study her carefully Bursey (34) insi to that every complete physical examination of a woman should in clude a pelvic examination and spec ulum study of the cervix Baumert (12) urges careful examination of every woman with pelvic symptoms Jeffreys (133) quotes Davis to the effect that the examination of a woman is not complete unless the cervix ha been inspected
- b Recause of poor training cannot recognize cancer misses the diagnosis gives wrong advice and begins Inappropriate treatment
- 3 The midwife Is often meddlesome and free with suggestions about conditions of which she knows practically nothing

B Ways and means of avoiding delays

- 1 Education of the public through public lectures and conferences the movies newspapers and the radio Schroder (239) suggests that the symptoms of cancer be taught in the public schools
  - a Instruction regarding the function and physiology of the genital organs Also urged by Forgue (76)
  - b Proof that cancer is curable but only by surgery or radiation therapy
    - Emphasis on the significance of vag inal bl eding and encouragement of

- nomen to report to their physician for examination as soon as bleeding occurs Geist and Matus (84) ap preciate that bleeding after the menopause is usually due to malig nancy but in 42 per cent of 182 cases they found that the cause was a benign condition in the cervix cor pus or ovary These cases must be followed most attentively as malig nancy may become apparent later even when it was not discovered at the original examination
- d D1 couragement of the prevalent cus tom of waiting until there is pain be fore consulting a physician
- e The urging of periodic pelvic exam mations as a necessary safeguard to permit early diagnosis of cancer 2 The physician Alvarez (5) urges that
- the general practitioner be impressed with the possibilities for cure and relief from di tress by the methods of treat ment in vogue today
  - a Must make a careful pelvic examina tion before prescribing Schmitz (237) urges trained gynecologists to teach general practitioners what con stitutes an unhealthy cervix and which lesions require treatment
  - b May find the colposcope and Schiller test helpful
  - c Should perform more biop ies when in doubt. They probably do not harm the fatient and usually chuch the diagnosis
  - d Ought to keep in touch with the progress and new developments in the larger cancer clinics
- 3 Medical students should be thoroughly instructed with regard to the signs and symptoms of uterine cancer
- 4 Midwives should be restricted to mid wifery and compelled to refer all ca es requiring other treatment to competent physicians
- 5 I harmacists should not prescribe but should urge women to go to their physicians for examination
- 6 Periodic pelvic examinations by trained gynecologists are excellent safeguards against the extensive development of an asymptomatic cancer (It is interesting that the wives of men who have been circumcised are less likely to develop cancer of the cervit )

Prophylactic eradication of benign cer vical lesions may prevent many cervical cancers

8 Cancer chines will probably become ex cellent institutions but can be no bet

ter than their personnel

Periodic Pervic Examinations Physicians in general seem to be enthusiastic regarding a concerted movement to educate women to the value of regular pelvic examinations. Some advice yearly visits but others believe that a examinations a year are preferable. Bloodgood (19) Bursey (34) Macfarlane and Howe (175) Martin (178) Massey (181) Peple (203) Pha neul (205) Procter (218) Remmelts (222) Ries ( 23) and others urge these examinations par ticularly for nomen who have sustained cervical trauma and suggest that they should be con tinued from the time of that moure until after the menopause Many asymptomatic early cancers would be treated and cured if all women were examined regularly but regular examinations would not completely solve the problem of early diagnosis as relatively few phy icians are capable of recognizing cancer of the cervix in its earli st phases According to Weaver (287) the problem would be implified if every voman could be convinced that cancer of the cervix at an early stage is curable in from 64 to So per cent of cases and that a thorough pelvic examination by a competent gynecologist once a year will reveal the early signs and vid nees of cancer

THE COLPO COPE HUISelmann (123 124) 15 reconnized as the world's most expert colposcopist and the most ardent advocate of the use of the colposcope for the early diagnosis of cancer He believes (126) that tin, le ions (2 mm in diame ter) can be recognized with the instrument. Ries (223) is continced that the colposcope is of assist ance in the identification of lesions of the cervix which cannot be seen with the naked eye Emmet (65) and Remmelts (22) have found the colposcope invaluable for the recognition of leucoplakia of the cervix. Graves (93) appreciated the value of the colposcope as a diagnostic aid but believed that the instrument is too expensive and too complicated for the average physician to become

adept in its use

SCHILLER TEST Schiller ( 13 suggests painting the cervix with an iodine olution (1 gm of rodine and 2 gm of potassium todide in 300 c cm of nater) to demon\_trate lesions which otherwise might be everlooked. Because of the gly cogen content of the surface epithelium nor mal vaginal mucosa stains darl brown in from thirty second to a minute Failure to tain max

indicate the presence of an early cancer hyper keratosi or trauma Tissue should be removed for biopsy from all unstained areas but not from eroded portions of the cervix Histological study is necessary to determine the significance of a given area which fail to take the stain Schiller suggests that every woman should be subjected to this test several times a year Graves (ox) re garded the Schiller test as indi pensable in a care ful search for early carcinoma. He found that erosions stain faintly and are pink that ulcers and ectropion do not stain at all that some areas of chronic cervicitis stain only faintly that trauma may destroy the surface glycogen bearing cells so that taining does not occur that granula tion are not stained and that in prolapsu staining is prevented by hyperkeratous. Himselmann (1 b) suggests that the Schiller test may help to eliminate some of the inaccuracies in diagnosis which arise from the u e of the

colposcope Biopsi Doderlein (57) rightfully insists that every clinical impres ion of cancer must be sub stantiated by histological proof before the diag nosis is made Jeffreys (133) recommend biopsy separate areas from any suspicious lesion of the cervix Heal (115) Jones (124) and Thomas (260) urae biops, whenever there is a question relative to the nature of a cervical lesion. Jores has not seen any unfavorable effects from bronsy and contend that the procedure will save far more patients than it can possibly harm. Careful consideration of the history careful himanual examination and inspection of the cervix under ideal conditions of exposure and light should lead to an accurate diagnosis in fully 98 per cent of all cancer cases. In the remainder the nature

of the lesion will be disclosed by biop y SPROLOGICAL TESTS AND BLOOD CHEMISTRY \atale (19 ) found that the Citelli Piazza reaction of no value in the differential diagnosis of can cer Bolaffi (2 ) believes that it may be helpful

but is far from a specific reaction

Bolaffi (20 1) attributes the hypergly carmia observed in cases of cancer to unrelated factors and does not consider it the result of a specific in fluence exerted by carcinomatous ti sues

Marta (177) found the pH of the blood lowered in cancer and unchanged in other ganecological disorders Krutreich (150) has noticed an alka lo-15 in the early stages of carcinoma which changes to acidosis as the disease progres.cs In advanced genital carcinoma he has found a de ci led tendency toward acidosis

In tests of liver function by the trypanocidal reaction Fubrier Kothermundt and Wiechader (66) found a slight decrease in this function in nomen with cancer of the reproductive organs

### PROGNOSIS

EXTENT OF THE LESION The chief factor in de termining the prognosis in any case of carcinoma of the cert is the extent of the local underment All other considerations are of secondars in portaine. Most gynerology, sits have accepted the clinical classification adopted by the Cancer Committee of the League of Nations y.

Croup r Farliest lesions limited to the cervix

free mobility of the uterus

Group 2 Invasion of vaginal wall slight in volvement of the paracervical and parametria ti sues uterus mobile

Group 3 Marked infiltration of the paracer vical and parametrial tissues uterus fixed

Croup 4 Invasion of adjacent vi cera with or without hitulæ May be distant metastases

The prognoss is most favorable of course in cases of Group 1 but untortunated only a small percentage of cases coming for treatment fall in this group. It is highly unsatisfactory to attempt a comparison of results from different methods of treatment in any of these several clinical groups becaue of the human element which play a con siderable rôle in a classification dependent solely on the findings of palpation. The most reliable and informative cure rate reported by any clinic is its percentage of absolute they exact cure.

OBESTY, Lund (171) states that the incidence of cure of epidermoid cancer of the cervix is highest in women of average weight the prognosis being time as good in the cases of uch women as in those of women who are obese or very

Hi tolory Lamniker (136) expres es the opinion of most gynecologists when he states that the prognosis depend on the extent of the le ion rather than on the histology of its com ponent cells keene (146) believes that the grad ing of cancers according to cell type is not of great pro nostic value Jones (134) comments on the variable histological picture in different por tions of the tumor and does not consider cell type of any assistance in the determination of the indications for treatment Laborde and Wickham (163) ob erved that radium is equally effective for all histological types of cervical cancer and kamniker (136) makes the same claim for vaginal hysterectomy Kamriker (137) contend that the histological type of cells in the original growth is of little import in the determination of the frequency location or time of appearance of recurrences

Toyoshuma (265) believes that a preponderance of eosinophiles in the stroma of cervical cannot indicates a better prognosis that marked plasma cell infiltration denotes a poorer prognosis and that invasion is more extensive and the results after operation are less favorable in ca es with slight cellular infiltration than in those with a rich iniltration of the stroma

Typection All cancers of the cervix are in fected many of them by strulent orpatisms. Heyman (122) and others stress the unportance of reducing or eradicating the infection before beginning treatment of the cancer to increase the number of cures reduce the primary mortal ity and decrease the inclinence of posterdatation morbidity. Some of the methods suggested are pre operative radiation by Brun ner (28) the use of vaccines by Cuedes (68) and Heurota (117, 118) electrocoacquation by Bernard (18) Cernex (85) Guedes (65) and Mikulez Radecki. (186) and cautery by Bonnfield (3) Peple (203) and Petit Dutaillis (41)

Associatio Prevanca Keller (151) re counts the difficulties that may be encountered in deciding whether a cervical lesson associated with pregnancy 1 benign or malignant. After delivery the character of the lesson is usually apparent.

Stock I (250) found only 8 cancers of the cervix in \$5 000 ptegnant women All occurred in multip are and were in an operable stage. Dhere was nothing about the course of the lesson in these cases to warrant the conclusion that the pregion ancie vertical either a tearding or a stimulating effect upon it. Bleeding begins early and tends to be free and as expectant mothers recognize vaginal bleeding as a sign of trouble they report for examination imme liastly. Phillip (6) valgrees that complicating pregnance has no effect on the results of the treatment of a cancer of the cervix kaminker (137) cured 5 of his 6 pregnant patients with terriscal cancer.

And rodias and Mahon (6) encountered a poly oid cancer of the cervix which caused hem orrhage at the onset of labor and had been diag nosed as placenta previa

Tracy (266) was able to find reports of only 6 cancer of the cervix complicated by ectopic pregnancy

Wickham and Touslet (292) treated a cancer of the cervix vith 3 200 me of radium. This teen mouths later the patient was delivered at term. The child is now three years old and apparently normal and the mother: free from recurrence. I hillip (290) has even subsequent

pregnancy in 2 women cured of genital carcinoma b) radiation therapy

### TREATMENT

CA CER CLINICS All over the world there us as concerted movement to establish canner changes where patient will reserve prompt and efficient treatment by speculates in career therapy. The American College of Surgeons is pioner ring this steal in the United States and Canada and has stimulated the establishment of cancer clinics in many of our leading hospitals and universities.

Frankenstein (77) favors the establi hment of cancer chaics because of the complete and accu rate records which would be kept by them and because their careful follow up of patients will furnish authentic information regarding the exact status of every type of lesion at all stages of treatment Bauld (11) is enthusiastic because the clinics will serve as an important adjunct in early diagnosis and treatment Schroder (210) realizes that treatments would be more efficacious if given only by trained specialists in cancer therapy and suggests that every physician be required to register his cancer patients in a can cer clinic o that they may have the benefit of an expert's counsel MacLean (1,0) believes that those who treat cancer should be surgically trained and radiologically minded

RADIUM RADIATIO VERSUS OPERATION In recent years the verbal battle between various choics regarding the relative ments of surgery and radium radiation in the treatment of cancer of the cervis has lo t much of it former fervor Today Regaud and Faure seem most intent on Leeping this feud abve. It is generally agreed that operation should be considered only for early cases in which the lesion is limited to the cervix and the uterus is freely movable but a few surgeons still operate after there has been extension to the parametria providing there is no fixation of the uterus. Whether one uses surgers or radiation therapy in these earliest cases deperds largely on his skill his personal attitude toward cancer therapy and the problems presented by the particular case. Hartman (110 111) cuted 75 per cent of his earliest calles with surgers and 63 per cent with radium. The pri mary mortality was 4 per cent in 49 surgically treated cases and 2 per cent in 30, cales given only radiation therapy. For more extensise lesions radiation therapy 1 unanimor, ly accepted as the only worthwhile procedure. It is agreed also that every patient regardles of the apparent extent of her cancer can be benefited by appro-

Auer (8) states that in early cases treated at the Barnard Free Skin and Cancer Ho pital St Loui radical surpers has proved superior to radium theraps as it has been followed by a greater permanence of cure after the years, Gosset (92) prefers radium theraps because it is more benign than surgery its application is sim ple and its primare mortality is lower Faure (67 68 69 70 71 , ) is certain that in early cases radical abdominal surgery is prefe able to radium therapy but Regaud (220) after com paring his own results following radium therapy with those of Faure after operation concluded that radium therapy is preferable and operation should be abandoned Crossen (47 48 40) recom mends deep \ ray and radium therapy for all except extremely early lesions Haupt (111) believe that only early cases should be operated on and later should receive radiation therapy Levent Herrenschmidt and Godard (170) de nounce operation even for early favorable cases believing that it involves too much risk for the patient Lynch (17 ) cured all of his case be longing to Group r by radiation alone Voltz (76) quotes Doderlein to the effect that radiological treatment does everything which radical surgery can do and is less drastic and les dan

Philip (or) expresses a commonsense attitude when he views radium therapy and surgery not as competitors but as supplementary methods of treatment. Perit Dutaillis, (ord) says that the problem of the treatment of cancer of the cervis is no longer a choice between radium therapy and surgery, but a choice between radium therapy and and radium therapy combined with surgery.

Restrict There are a recognized method of testing cancer of the cerus-calcium surger, and radiation combuned with surger. Numerous medications have been sugered and variations in the technique of treatment are continuously being advised. According to an editional comment (53) in the British Isumal of Redi log: Improvements in the result of the treatment of cervical cancer will come not from operative procedures one in which the technique is already excellent but from radiation therapy which has not yet passed the experimental stage.

Radium treatment is administered locally herough all pot side po tals and in sufficient dosage to eradicate the canter nithout serion by damaging adjacent structures. It is given in the form of (t) large doses (from 3 000 to 4 500 mm;) delivered in a period of hours (z) massive doses (from 6 000 to 8 000 mm;) delivered con intunous), or a period of davs—French tech

ate th rapy

nique—and (3) divided do es (from 1 200 to
000 mc per dose) delivered at intervals ranging
from several days to several weeks

Iones (134) very sensibly remarks that the dosine of radium cannot be standardized the dose and technique must vary with the character location and extent of the given lesion Simpson (243) commenting on the present day methods of applying radium criticizes the I rench school which applie a small quantity of radium from so to 70 m m continuously for a number of days because he fears that the trauma is dangerous and a marked inflammatory reaction is almost mentable. He believes that metastasis is favored by the manipulation of searching for and dilating the cerus to unsert a relatively large bolus of radum into the iterus. He contends that re peatedly withdrawing and re-inserting radium in the cervical canal add tremendously to the dan per of subsequent infection. Simpson (242) is convinced that 5 000 mc is more than twice the amount of radiation that can be used in the cervix safely and has adopted a technique of divided doses debyered through a maximum number of portals with minimal trauma

Kleine (155) believes that both syphilis and cancer should be treated actively when they covered by the third that in the presence of syphilis radium radiation hould be given in smaller doves than usual because the privous damage by the syphilis makes the trussel less resitant to radiation.

Brooksher (7) enumerates the following contra indications to the local use of radium for cancer of the cervit (7) emaciation and cachestra (2) marked aniemia (less than 3,000,000 erythrocytes and a hierioglobin below 40 per cent) (3) hydronephrosis or pronephrosis (3) fistulie (3) pelive inflammatory disease and (6) fectessive pelive innolvement by the cancer Kaplan (142) prefers radium fri local or surface application for intratumoral treatments and as a distant pack if large quantities are a validse

Large dosage of radium altitured quickly For operas Crossen (14) 48 (4) has given a maximum dose of radium radiation at the beginning of treatment. He follows this up with deep \( \) ray theraps and teradiates any local recurrences. This treatment yielded an absolute five \( \) each cure to \( \) ray theraps and teradiates any local recurrences in zi per cent of ro8 patients but Crossen as particularly gratified that 11 women who came to him with extensive cancer of the cervix are now living and well from six to ten \( \) cars after the treatment. Burnam \( \) (33) from the Howard A kelly Chine where radion \( \) nu\( \) ray are used reports the incidence of absolute cure in all cases as \( \) 550 for event in operable cases as \( \) 4.73

ner cent in cases in which the radiation was given for prophylaxis as 41 66 per cent in inoperible cases as it as per cent, and in cases of recurrent lesions as 11 25 per cent Doderlein (57) prefers this type of treatment to the technique of the French school. He fears that the latter is less effective and more harmful Jones (134) using from 3 600 to 4 00 mc and following up with deep 3 ray therapy has obtained an absolute cure in 25 per cent of cases Ward (282) advises an united do e of from a too to 4 200 mc and one sub couent radium treatments according to the reaction to the first treatment. He is par ticularly insistent and successful in the follow up of patients, and urges continuous supervision of their progress. He uses high voltage \ ray radia tion as an adjunct to radium and reradiates whenever necessary for recurrences. I requestly he myes transfusions of blood before or after the irradiation. With this technique he has obtained an absolute cure in 25 o per cent of cases

Duided dotes Simpson (243) has devised a technique which he hopes will materially reduce the dangers of tranmatism infection metastasis and overdosage. He urges gentleness in examina tion call attention to the futility of trying to clean up the varing by douches prior to radium treatment and deplores the general practic of curetting the local crowth of making traction on the cervix with a tenaculum and of forcibly dilating the cervix to introduce a large bolus of radium. In the technique he employs 1 000 mgm of radon are placed for fifty minutes against the cervix or in a lateral forms, a few days later a second similar application is given and a few days or weeks later 600 mem are introduced into the uterus without dilating the cervix and left in place for three hours. The local treatment is then followed by the usual cycle of deep radiation around the pelvic surdle with the radium bomb or roentgen rays

Hauph (113) uses fractional dose of from 2000 to 300 m c delivered to the uterus and the 12 gma. He gives a total of 6000 m c in 14 weeks. In operable and borderline cases which he treats by operation the incidence of cure is 41 6 per cent. In all others which he treats by radiation it is 10 per cent. Peple (203) removes the local growth with the cautery and gives from 1200 to 18000 me; 3 times at monthly intervals. He obtains an absolute cure in .05 per cent of cases Volt (275, 276 77, 78) uses both 1 ray and radium in fractional treatments extending over a period of many weeks. The primary mortality in his cases 1 0 8 per cent and the incidence of absolute cure 24 per cent. Kessler and Schmidt.

(15) prefer fractional doses to the Regaud (French) technique because it has a lower primary mortality and morbidity. They give 3 treatments

of 2 000 mc in four weeks

Mastree continuous but slows, delivered dose french or Regued technique). Outler (33) believes that the entire cervix paracervical tissues and parametria should be considered potentially malignant and that all lessons should be treated with maximum doses of radiation because it impossible to determine the exact extent of the cancer by bunanual palpation. He uses from 30 to 50 mgm in the uterus and 10 mgm in each of 5 corks for the Curie colpostat. The radium is left in place for five days or until a dose of from 7 000 to 8 000 mc has been delivered. For extra trial radiation Cutter employs a 4 gm radium pack. He gives the indications for treatment according to the extent of the lesson as follows.

Group 1 Intra uterine and vaginal radiation Groups 2 and 3 Intra uterine and vaginal radiation supplemented by external radiation

Groups 3 and 4 External radiation alone or combined with vaginal radiation intra uterine

radiation is entirely omitted or deferred Laca\_sagne (164) reports a cure in 6 per cent of 1 678 cases and Gossett and Wallon (03) a cure in 4 g per cent of 2,7 cases Laborde and Wickham (163) using the Regard technique with subsequent deep \ ray radiation obtained an absolute cure in 23 7 per cent of cases Phillip ( 11) favors the Regard technique to eliminate complications he has never en a fistula develop after it Simpson (243) is surprised that the pri mary mortality is only 2 per cent and that com plications such as phlebiti pelvic cellulitis peritonitis and perinterine abscess are as infre quent as reports indicate Bernard (18) advocates cleaning up the vagina by frequent Dakin irri-a tions for several days prior to treatment judicious removal of exuberant tissues by electrocoagula tion and the insertion of drains into the vagina to facilitate frequent irrigation during the eight days that radium is left in siin-all of these measures to reduce the incidence of an inflamma tory reaction after the radium treatment

CUTTEN AN RADIUM Petit Datailli (204) advocates preradation curetiage and cauter. Peple (202) destroys the local growth with hor yons and then use fractional radium treatments. He obtains an absolute cure in 30 5 per cent of cases. Simpson (233) thinks that cauters 1 in necessir and may be dangerous. Hemotal (117 118) has abandoned perradiation curettage and cautery and now relies on vaccines to clean jup the focal growth.

SURGICAL DIATHERMS AND RADIUM Gernes (8,) recommends electrocoagulation of the local growth and starts radiation therapy forty-ei ht hours after this procedure Bernard (18) believes that removal of evuberant tissues by electrocoagulation is less harmful than the use of the curette prior to radium therapy Guedes (08) advocates electrocoagulation and others have been favorably impressed by surgical diathermy in the preparation of the field for radium theraps However radiation should be postponed for at least three or four weeks ie until the burned area has an opportunity to lough and the wound is healed. Mikulicz Radecki (186) advices elec trocoagulation for the treatment of cauliflower like growths Carranza (30) 1 opposed to such preradiation therapy because electrocoagulation is followed by slough necro is and infection Laborde and Wickham (163) contend that radium needles curettage and electrocoamilation produce infection and inflammation

VACCINES AND RADIUM Guedes (98) and Her rotas (117 118) employ preradiation vaccina tion with polyvalent sera to reduce local infection and thus decrease the incidence of postradiation

cellulate COMBINED SURGERY AND RADIUM In all except cases belonging to Group 1 Curtis (\$2) u sall destroys the necrotic local growth with surgical diathermy or a small dose of radium. One or two months later he resorts to coincident surgical exposure and radium treatment The bladder is mobilized upward the regions of the broad ligaments are exposed and the uterus is some times partially delivered broadside preliminary to use of the radium Such coincident surgical exposure and radium therapy in extensive cases makes damage to the bladder ureters and rectum much less likely and gives a prospect of cure in many cases of Groups and , which heretofore have had a dubious prognosis

have had a dublous provinosis.

Petti Dutailli. (a) considers the choice be tween radium treatment alone and radium treat ment combined with sugers as one of the most important decisions in ancer theraps todas. He has found that collected statu. Lies place the pri mary mortality rate after radium theraps at 3,3 per cen. The deaths are usualls due to the ifection which often results from the manner of applying the radium. For lesions of Group I Petti Dutaillis recommends ampulation of the crivial and attendant for the radium. For lesions of Group and 4, the suggests curtelinent and cauternation followed by uterovaginal radium therap. The curette error os cancer tissue and the cauter completes

the destruction at the same time sealing off tesels and preventing, dissemination of cancer cells. By this treatment I etit Dutaillis obtains a cure in 100 per cent of cases belonging to Group 1 and 21 per cent of those belonging to Group 2 3 and 4 Carranza (10) advocates preradation electrosurceral amountation of the civix.

COMPATICATION FOLLOWING RADIUM TREAT MENT Because of the higher mortality when large single doses of radium are used f coster and Schwidt (152) favor fractional radium treatments and are opposed to the use of radium needles In a series of 257 cases treited by them there was a primary mortality of 6 by per cent. Vince present of the women who died had a sever cellfulity with Accomplicity and a 2 per cent a mide cellulities.

Jones (1 4) believes that postradiation hamor

rather than to radium necrosis

Curtis (51) reminds us that radium is one of the common causes of ceretcal stricture. Cuilly in and (ouzs (og) report the occurrence of prometra in s of per cent of 751 radium treated cases of can cer of the cervix. As prophylaxis they suggest thorough disinfection with vaccines before inser tion of the radium a technique of administering the radiation which assures complete, clerosis of the endometrum without stenock of the correct and subsequent dilatation of the cervix at regular intervals to prevent obstruction. When overmetra develops they recommend dilatation of the cervix attications with hydrogen peroxide and further clerosis of the endometrium by the insertion of radium into the corpus. In persistent cases it may be necessary to remove the uterus

Kleine (153) believes that damage to the blad der and rectum are mevitable after large doses of radium radiation. As evidence of such injuries there may be hamorrhage thickening of the vis cus and histula formation. Ottow ( 02) has seen ve icles and scars in the blidd r mucosa and ulcers and b tule following radium therapy Halter (107) observed rectal complications in 3 3 per cent of 696 patients treated by radiation therapy Two per cent of the patients with such complications had f stula or per cent ulcers o I per cent scars and o 7 per ent stenosi Halter believes that proceitis occurs quite com monly and that rectal fistula may heal spontage ously if they are due to radium necro is alone He states that a ooo me is the maximum lose of ra hum radiation which can be used without Clusing rectal damage

Philip (200) recognizes that radiation of genital cancers usually leads to functional inactivity of the uterus and ovarie. However, he reports

that in a series of 250 cured cases there were 2 subsequent pregnances and of the women con

tinued to menstruate DEEP RADIATION THERAPY (\ RAY OF RADIUM Page ) A method of treating cancer of the cervix seems to be complete unle s it includes deep 12 diation therapy I egardless of the extent of the lesion or the type of the mainr therang deen radiation is almost universally regarded as a necessary follow up procedure to stop the develop ment and spread of cancer cells not destroyed by the original treatment Kaplan (142) advocates deep \ ray therapy for its curative effect where large areas must be radiated for the treatment of maccessible lesions and as an adjunct to radium therapy and surgery Practically all mecolo gists favor it as a palliative measure Behney (16) recognizes the value of deep \ ray therapy in cases of extensive lesions belonging to Group 4 to prolong life restore hope and alleviate pain

Fried (79) recommends a reduction in the intensity of deep an associated inflammatory process. Inhibit (211) seems to have few supporters for his contention that local radium therapy alone is better than

Pre radium and deep \ ray therapy

Pre radium deep radiation Heals (135) uses preliminary deep radiation to reduce the bulk of the local lesion Voltz (276 6, 278) re ports an absolute cure in 25 per cent of cases treated with fractional dues of deep Y ray radiation and local ridium radiation. He radiates the pituitary also in cases of gential cancel.

Postradium d eb radiation Burnam (22) uses deep \ ray freely after the local atta k with radon Except in cases of Group 1 Cutler (53) follows up all vaginal and uterine radium treat ments given according to the Regard technique with deep radiation (4 gm radium pack) Hey man (121 122) maintains that the treatment of choice is radium radiation of the uterus and va gina upplemented by deep \ ray or deep radium therapy Jones (1,4) uses deep 1 ray treatment routinely three or four weeks after local radium treatment Newell (196) advises a deep \ ray follow up for all except the earliest lesions Ward (282) advocates high voltage 🔪 ray radiation as an important adjunct to local radium radiation Werner (200) is convinced that from 5 to 10 per cent of patients who otherwise could not be helped are saved by radium and deep \ ray therapy

Philip ('11) believes that patients with cervical cancer are not benefited by 1 rophylactic after treatments with deep \ ray or deep radium radiation. On the other hand Hartman (110 till) states that histerectomy after ratium.

therapy is useless because no cancer remains in the uterus and that deep \ ray treatment is preferable

Pre operative treadiation Brunner (28) work ing from the standpoint of bacterial counts and bacterial virulence in the local growth found that so per cent of all cases are favorable for operation two or three weeks after radiation therapy at the time of the leucopænia only 15 per cent are favor able but after from six to eight weeks operation can be performed in 66 per cent without great likelihood of serious infection during the con valescence Holzbach (131) expects improved results from operative treatment if more care is taken in the selection of cases and prophylactic 🔪 ray radiation is given from two to four weeks Monod (190) favors pre opbefore operation erative radiation because it decreases the incidence of infection and simplifies the operative technique Leveul Herrenschmidt and Godard (170) a lyocate radium and \ ray treatment of cancer of the cervix. In favorable cases they remove the pelvic lymph glands one month after the radiation therapy. They contend that such an operation is attended by relatively slight risk Hartman (110 111) agrees that it is not neces sars to remove the uterus as radium completely destroys the local growth in such early favorable

Postperature radiation Adler (r. 2) follows up his radical hysterectomes for cancer with deep radiation, using either the \text{\text{Tays}} or radium Haupt (rrs) advocates operation only for early cases and believes that it should be followed by radiation Wenner (gr) muintains that radical operation with po toperative radiation is the most acceptable therapy for early cases but Phillip (sor) is not covuinced that deep radiation after operature is of value

OFERATION There are not many garecologists who continue to favo operation for the treat ment of cervical cancer. The majority believe that surgery is applicable only to lessons of Group 1 and a few of those of Group. For more advanced lessons radiation therapy is universally accepted as the rational treatment. Vost of those who are urgically minded prefer the addominal approach (Wertheim type of operation) a few advocate vagorial historection.

Vagual hysterectoms. Adler (1 2) reports 1 coon as operated upon by radical sagnal by sterectom with and without associated radiation therapy. The primary mortabil 1,3 3, per cert and the mendence of cure 19 8 per cent. Adler s pre ent technique includes removal of the attents and parametrial itsuses with the burnal of 50

mgm of radium in the parametrial space for from set to eight hours and subsequent deep ridiation therapy. Adder is gratified by an apprciable improvement in the uncleane of e-resince he adopted this new technique. Lamnife (rgd 137) obtained a cure in 279 per tent of § 1 cases treated be either va\_nad by streetomy or radiation. In 276 operations the primary mor tability was 6 3 per cent. The chief cause of death was urnary tract infection.

1bdominal (Hertheim) operation (23) believes that patients who die eventually from recurrent cancer of the cervix suffer less pain after surgery than after radium therapy and that the abdominal is preferable to the vamal operation Faure (67 68 69 70 71 72) b one of the world's foremost advocates of opera tion for early lesions limited to the cervix. He reports that in 40 cases belonging to Group 1 the primary mortality was 4 4 per cent and the incidence of five year cure go o per cent. When lymph glands are involved Faure considers the battle almost hopeless Bonney (24) reports a primary mortality of 15 3 per cent in 330 opera tions Thirty-eight and nine tenths per cent of the patients were living and well five years after the operation. Of those who had metastases in lymph gland at the time of operation only 23.7 per cent were cured whereas of those without such metastases 50 per cent were cured Bon ney s absolute cure rate is 23.4 per cent Begown (15) reports a primary mortality of 63 per cent and an incidence of five-year cure of 18 18 per cent in 55 surgically treated cases. In 522 case in which Sussman (255) performed the Wertheim operation the primary mortality was only 418 per cent

Grunbut (07) suggests that it may be wise to place 50 togm of radium in the parametrium on each ide during the operation and leave it in place for about six hours Holzbach (131) treated 1 o cases. In the 111 which were treated sur gically the primary mortality was 3 6 per cent Holzbach employs radiation theraps before operation and for lesions not adaptable to urgical removal his obsolute ture ra e is 5 per cent Phillip (207 oS) obtained an absolute cure in 26 5 per cent of r 78 patients. In those operated on, the incidence of cure was 49 per cent but the primary mortality was 14 per cent. In those given radiation therapy the incidence of cure was 10 5 per cent and the primary mortality was only 2 2 per cent

RECURRENCES OF CERVIX CANCER According to Kammiker (137-138) recurrences usually appear in the first year after operation however they may not appear until years later. Bonney (24) observed that 10 per cent of his recurrences occurred between the fifth and the tenth year after operation. Lynch (172) found that marily 3p per cent of his patients who were cured for five years died later from recurrences or other malignant lessons. Kolde (150) believes that recurrences may appear quite late and states that Bumm saw one case in which they developed tweative vears after operation and 5 cases in which they occurred after ten years. In a follow up of 150 patients who were cured for five years. But mam (33) found that it to were hiving and well after ten years and 19 had died of recurrences or other cancers.

hammker (137 1,8) recognues 4 clinical types of postoperative recurrence local in lymph glands distant metastases and implantations off the recurrence in 324 patients be found that 67 per cent were local 23 per cent were in the tymph glands 3 per cent were distant metastases 1 per cent were unplantations and 6 per cent could not be classified. Failure to remove regional lymph glands as is customary in a vaginal operation does not materially increase the incidence of 13 mph gland recurrences. Local recurrences are more frequent if the adnexal are not removed and if the technique does not include the resection of a generous cuff of vagin.

Local recurrences may appear in the vagina in the midline behind and above the vaginal vault in the parametria or in the uterosacral ligaments Ten per cent of women with raginal recurrences are permanently cured by deep radiation theraps and 57 per cent die in the first year Midline recurrences usually appear within a year and often invade the rectum or bladder. The results of their treatment by radiation are not good Para metrial recurrences commonly result from over looked or unrecognized cancer nests on the ureters the stump of arteries the bladder or the rectum or in the cut ends of ligaments They usually appear soon after operation and the results of treatment are good because of their accersibility Twenty per cent are cured by deep radiation therapy

Lymph g and recurrences may occur in glands on the pelix wall in more destant chains or in the inguinal regions. Those on the pelix wall can we will one for the size on the size of the cause ymphotons from pre sure on nerves and ureters. Eightly per cent of women with such recurrences die within a year 7 per cent are cured by operative removal with or without radia ton therapy. Involvement of distant glands is less common and is evidence of widespread dissembation of the cancer. Inguinal mediatures

probably occur because of a perverted lymph flow after operation. Operative removal is indicated for early cases, but the prognosis in general is poor

Implantation recurrences may appear in lapa rotomy or Schuchardt scars. They should be removed but the prognosis is not good.

Distant metastases are rare. They usually appear within three years. Treatment is useless

Bladder in obtained may be recognized from severe o status with bullous credem marked thickening of the wall diverticulum formation frinkle penetrating cancer itssue or the development of fishile. Halter (107) tound rectal times on in 2 per cent of 550 recurrences. He agrees with Lymniker (137) that the essential procto scope findings are fixation of the mucosa um bilication stenosis perforating cancer tissue or fishilosomenes, but the Lagran.

Treatment of recurrences hampiler (127) has found that operative removal of recurrences is difficult. In selected cases a colostomy may give comfort Kamniker does not favor resection of the presicral nerve for the relief of pain. He regards deep radiation in large doses as the best treatment. By means of it he obtained a perma nent cure in 8 1 per cent of recurrences proved by histological study lones (134) suggests radon seed implantation as a worthwhile procedure Burnam (33) reports the incidence of five year cure following radiation therapy as 11 25 per cent Ward and Farrar (284) are warm in their praise of radiation treatment for recurrences Seventy five of their 147 cases of recurrence were treated Twenty four per cent of the patients lived for five years and 16 per cent for from tive to ten years. Ward and Larrar are convinced that without this reradiation all of their nationts with recurrences would have died

PALLIVITUE MI SUBJES Patients who present themselves with a far advanced growth are worthy of the physican's best efforts. Much can be accomplished in the rehe of pain the control of bleeding the building up of re istance the improvement of morale the arrest of fetul discharges and measures to render the remaining days more peaceful and comfortable.

Alvarez (5) and Ward (282) believe that blood transfusions are mo the blightla and too frequently forgotten According to many genecologists reduction therapy in moderate carefully ontrolled doses will stop the tendency toward terrifying hemorrhings and decrea e fetule samous discharges. Deep radiation therapy may prolong life for several 3 cars.

Bainbridge (9) draws attention to the value of startation ligatures on the ovarian and internal

that vessels with removal of Ixmph glands en bloc to stop the advance of utenne cancer Kumamoto (161) has shown by experimental studies that bigation of the uterine vessels has only a temporary effect on the advance and extension of cancer of the cervix

Kamniker (137) believes that colostomy hould be performed more frequently. Latzko (168) mentions implantation of the wreters into the rectum for the relief of vesical distress, but it is probable that such heroic treatment is indicated

only in unusual cases

Veursingteal procedures are constantly ganning fant of to the relief of severe pain caused by pel ne malignance. Condamin and Arnull (43) recommend nere impetions with Sicard's muture They advise transacral injections to control sacral tools and paracetebral injections to diffect the lumbar roots. They employ all o epideral injections. They have found this a simple procedure followed by sufficient relief to allow the patient to die peacefully. After two or their mostles a repetition of the injections may be necessary. Failure to obtain relief is due to inaccurate injections based on faulty determination of the topographical distribution of the pain.

graphical distribution of the pain Vany gyr-coologists recommend operations on the lumbar and pelvic rampels the never Such procedures permit abdumnal and pelvic exploration confirmation of the diagnosis by biops; and the removal of discrete tumor growths. Fourtaine and Hermann (24) also revisions and as not politically as exposure that the properties of politically as a second of the properties of politically as a second of the properties of sensory disturbances. Kordenat (157) recomments lumbar 3: mptalithe remuserion. Cotte (44) is the chief exponent of resction of the present outer large and notes. The properties of the propagative for infernal symphothesism and suggests that at oporiental symphothesism and suggests that at operation for cancer of the uterus it may sometimes be advisable to resect the presacral ner e to present pain later Greenhill and Schmitz (96) prefer presacral nerve resection to chordotomy because the latter is a more extensive operation and if not performed accurately does not give relief. It is significant that numerous operations on the sym pathetic system have been suggested in recent years for an equally large number of conditions and that reports from the exponents of these various procedures seem to indicate that their patients are reheved Yet Loyal Davis says that the most accurate physiological work available has failed to demonstrate a direct sensory path was in the sympathetic system although this system probably participates in the physiological pathways of referred pain

When performed by a skilled neuro-urgen chordstown; I the ideal method of reliction people pain. It is recommended by Grant (94) Jones (134) and Kahn (135). Grant such that pain can be relieved at any point below the ensions by section of the anterolateral columns. The advantages of chordstorm, are summarized as

follows

I Since pain fibers are compactly collected in the anterolateral columns section here produces the largest possible area of anxithesia.

Pain and temperature sensations alone are obliterated and the usefulness of the lower ex

tremities is not impaired
3 The operation becessitates only a small laminectomy consequently it is not an exhausting procedure

If the section is not accurate the pain may not be entirely relieved and there may be dama e of the motor tracts resulting in paraly is and loss of sphincter control. Such undesirable complications can be avoided by performing the chordot only under local anaesthesia.

## CARCINOMA OF THE BODY OF THE UTERUS

INCIDE CE Buben (193 50) reported that to per cent of 36 pelvic cancers originate in the body of the uterus that in nullipartic cancer of the bods of the uterus is more common than cancer of the cervix and that most of his patients with cancer of the bods of the uterus have passed the menopause. The relative infrequence of carci noma of the corpus before the menopause is quite striking.

Gilbert (89) observed carcinoma of the corpus in a girl of eleven vears. He was able to find only 5 other reported cases of cancer of the corpus in girls under fifteen years of age. ETHOGOIC U. FACTORS The growth and development of the endometrum; a rombolled largely by the anternot lobe of the pituitar; gland and the conclusion has been drawn that hyper distance of the pituitar; gland may cause hyper plassa of the endometrium. Holbaure (128) seg gests that continued o certimulation of the pituitary gland might give rise to cancer of the corpus Tallo (; 50) wondered it hyperplassa of the endometrium should be considered a precancerou lesson but the careful studies show that it is a forerunner of carcinoma only infrequently. Tay for advises the use of radium in the treatment of

hyperplana occurring at or after the menopause such therapy is indicated to stop bleeding and for its prophylactic effect

PARIOLOGY Ruben (9 30) looks on careinoma of the corpus as the most favorable type of pelvic cancer It is o beingn that it remains confined to the uterus for a long period of time probably for a corp.

Gutman (10x) reports a cases of carcinoma of the corous associated with fibroid He urges a continuous tollow up of cases of fibroid treated by radiation because of the possibility of the later development of cancer Macfatlane (174) reports a case in which uterine bleeding recurred fifteen years after castration by \ ray treatment for bleeding throm smata. The recurrence was treated with radium. Lour months later curet ting revealed an adenocarcinoma of the corous and hysterectoms was performed. Macfarlane was able to find reports of only 20 cales of uterine cancer (cervix and cornu ) following radiation She wisely concludes that persistent eryptic bleeding after radiation therapy is an in dication for operation regardless of the findings at curettage Sophian (246) describes 2 adenosar comata of the uteru \text{\text{ine years previously one}} of the patients had received \ ray therapy for menoraus, I bleeding

Kiviler (154) adds another cave of mixed tumor of the uterus to the few previously reported. The patient died of recurrence two and one hill years alter operation. Ret and Culter (2 1) recognize anaplastic cancer as the most malignant type of carrinoma of the body of the uterus. It is all the other of the uterus is all the transparence of the control of the most radio-ensuities. They recommend radia ton followed the operation for law orable cases and radiation alone for cases which are more advanced. Donards (63) describes a 15 cm ear cinomatous cyst of the uterus which has associated with fibroid. He add that such a cancer might have an en from misplaced muellerian tisse

Trace (266) cared for a patient vith an ectopic pregnancy complicating a corporeal cancer. In a review of the literature he was unable to find the record of a similar case.

Of the 520 cases of cancer of the corpus reported by Offust 1203 from the Mano Clime an associated carenoma of the onary 723 present in 119 per cent whereas of 616 case of papillar extandenocarcinomata of the onary 86 case. The were complicated by cancer of the body of the uterus Offust believes that cancer cells may be transported through the fallopian tubes and that the operative care of caretinoma of the oray must middle histerctoms.

Gun ett and Cirardin (101 102) observed a cherry sized suburethral metastasis. In a case seen by us in which a similar nodule was found just beneath the external meatus the patient is well two years after operation.

Diverso to Buch to (14) advises curettage in or er case of suspicious uterine bleeding and sug gests that liquodol injections for hysterography may be helpful in selected cases. Caraven (38) diagnosed his patient a lesion as a cancer of the cornus from the hy terouram at operation it proved to be an endocervical carcinoma with an associated mometra. The use of broadol for the diagnosi of cancer of the uterus is open to con siderable question. Buben (20, 40) utges more frequent curettage for diagnosi and believes that the findings made with a utering sound or by nalnation are only suggestive. Muller (102) re ports a case of soft highly malignant cancer of the corpus which could not be diagno ed from curettines. He add that the findings with a curette are not infallable. In this conclusion Rainbridge (a) concurs

TREATMINT The present day trend of thought is away from the old concept that cancer of the body of the uterus is not usceptible to radiation therapy and that operative removal is the only acceptable treatment. There is a continuous in crease in the number of generologits who use radiation therapy for corporeal cancer. The results obtained are encouraging.

Bed re (14) believes that operation is prefer able to radium therapy. He states that he has cured so per cent of his patients by surgery. Of 180 cases reported from the Mayo Clinic by Bowing and I ricke (25) 87 were treated by operation and radiation and too by radiation alone Of the patients with so-called operable lesions 31 to per cent of those treated surgically are living and well five years after operation and 46 75 per cent of those receiving radiation alone are well after three year. Of the nationts with mon erable lesions 12 63 per cent of those treated by operation with ubsequent radiation and 26 31 per cent of those treated by radiation alone are apparently well. Bowing and Fricke recommend operation followed by radiation therapy when ever it is possible Radium and \ ray treatment alone are beneficial in the less favorable cases Buben (20 30) performs vaginal hysterectomy in favorable cases and abdominal hysterectomy in complicated cases Haupt (113) obtained a cure in 61 per cent of 72 cases. He recommends on eration and does not approve of the use of radium alone for corpus cancer. In the period from 1914 to 1920 Heyman (121 122) treated 80 patients

by radiation therapy alone As 425 per cent are living and well today he is convinced that adenocarcinoma of the corpus is not resistant to radium treatment Kaplan (142) holds that cancer of the corpus is treated just as well by radiation as by operation and recommends the introduction of radium into the uterine cavity with deep 🔪 ray therapy over the entire pelvis Of 28, cases reported by Volbracht (274) 133 were treated by operation 143 were treated by radiation alone and o were not treated. In the surgically treated cases the primary mortality was 17 2 per cent and the incidence of cure 54 i per cent. Of the cases given only radiation therapy 48 r per cent were cured Volbracht does not recommend

postoperative radiation Voltz (275 276 2,7 278) obtained a five year cure in 45 8 per cent of 107 cases treated by radiation alone Of 39 pa tients treated in the period from 19 1 to 1926 62 per cent are living and well today. The primary mortality in these cases was only o 3 per cent as contrasted with the primary mortality of 10 per cent usually estimated for operative treatment, Voltz is convinced that radiation therapy yields just as good results as surgery and is even pref erable to it He believes that the results from radiation therapy are constantly improving be cause of changes in the technique of its administration and routine radiation of the hypophyseal area as suggested by Hofbauer (128)

# SARCOMA OF THE UTERUS

INCIDENCE In a period of six years Haase (106) observed 18 sarcomata of the uterus among 53 sarcomata of the genitalia. On the basis of the 11 000 gynecological admissions during this period the incidence of uterine sarcoma was therefore o 4 per cent and on the basis of all malignant tumors of the uterus it was 5 2 per cent Unbehaun ( 67) found that 4 per cent of all uters removed at the Gresen Gynecological Clime in the period from 1918 to 1931 were sarcomatous Wolfe (205) believes that sarcoma is more com mon after the menopause Okkels and Therkelsen (100) state that Melchior found only sarcomata in 3 500 uterine scrapings and that Moller ob served 7 sarcomata in 5 055 curettings 20 sar comata in 1 178 biopsies and 4 sarcomata of the uterus in 5 766 autopsies

Haase (100) found sarcoma in 30 (4 per cent) of 710 uterine fibromy omata Hoenig (127) cites Norris as having discovered sarcoma in 2 3 per cent of 2067 uterine fibroids and Ewing as estimating the incidence of sarcoma in uterine

fibroids at about 3 per cent PATS OLOGY In 32 of the 38 cases reported by Haase (106) the tumor arose in the corpus and in 6 in the cervix. In 35 it started in the myometrium and in 3 in the mucosa. In 30 it devel oped from a fibromyoma. Hoenig (127) reports sarcomatous changes in a pedunculated tibroid removed becau e of sterility and quotes Ewing as saving A malignant myoma does not neces sarily represent the transformation of a previously benign tumor probably the majority are malig Ahumada and Mas nant from their inception ciotra (4) report the case of a patient who spon taneously expelled an encapsulated sarcoma from the uterus refused further treatment and was known to be well twenty three months later

Okkels and Therkeleen (199) succes fully removed a large cystic sarcoma of the uterus from a woman fifts three years old Stevens (249) reports a rhabdomy osarcoma of the cervix in a young woman Burger (31) reports the case of a patient who had been curetted and given radium treat ment for bleeding fibroids in 1921. The treat ment was repeated in 10 6 and again the curettings failed to disclose malignance. Later the patient was operated on because of a mass associated with lower abdominal pain. Hamatometra a uterine fibrosarcoma and a right hæma tosalpinx were found. Cowles (45) reported the case of a patient who presented both a cancer of the corpus and a sarcomatous polyp at the cervical os De Gery and Reeb (88) tell of a myeloblastic cervical sarcoma associated with bilateral ovarian carcinoma Matvas (182) saw a grape like sar coma of the cervix incarcerated in an intact hymen He removed the growth with the cautery and performed a radical abdominal extripation.

Diagnosis Unbehaun (267) believes that the best criteria for the diagnosis of sarcoma are ac tive proliferation and rapid growth Wolfe (295) has found that curettage yield adequate material for a positive diagnosis in only 50 per cent of cases He believes that all uten removed for supposed fibroid after the menopause should be examined and studied immediately for cryptic malignant growths Wintz (20,1) states that a uterine tumor which a reduced to half its size within three weeks after radiation therapy is probabl a sarcoma as myomata do not involute so rapidis

TREATMENT Wintz ( 95) reports a five-year cure in 5 per cent of 4 proved cases of uterine sarcoma treated solely by deep \ ray therapy Wolfe (205) recommend radical removal fol

loved by intensive radiation theraps

### CHORIONEPITHELIOMA

Colucci (42) reports a case of chorionebithe home of the cervix following the expulsion of a by datadiform mole in which secondary tumors were found in the cornus He quotes Alfieris mortality statistics according to which 56 per cent of all chorioneoitheliomata are fatal the mor tality of those associated with secondary growths in the cervix is 75 per cent and the mortality of

those primary in the cervix is 25 per cent Curtis (so) presents a beautifully illustrated (in colors by Tom Iones) report of a fatal case in which the classical bisions were found at autopsy Two years previously the nationt had passed a mole Curtis observed a strikingly positive Hegar sign. The persistence of a soft lower uterine seg. ment despite the absence of a fetus for many months is evidently ascribable to the continued

viability of chorionic cells

Larl ner and Leventhal (165) report the cure of a nineteen year old girl with chorionenithelioma of the uterus complicated by extensive metasta es to the lungs (as shown in \ ray plates) They first performed a by terectomy and then admin istered intensive deep \ rav therany more than five years after the operation the pa tient is well and free from recurrences

Lanham (167) calls attention to the great value of pregnancy tests (Aschheim Zondel, and Fried man) in the diagnosis and prognosis of hydatidi form mole and chorionepithelioma. He believes that strongly positive tests after operation indicate persistence of the growth often as metas

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# BIBLIOGRAPHY

ADLER L D Beh pdlu des C llumkarcinoms mit Operat on und B strahl g Wen klin Wehnsch 932 xi 289

Idem Te tment of carci that of the cer is by sag inal hyst rectomy and dum Am I Obst &

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9 Blymph t block f r mo able c ma of the utru with points of peci lint rst Med J &

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BALLD W 4 G 4 VINCE 1007 1 C 5 M LYNC

& Obst 933 1 432
17 BUNNERT W 1 VINS chit n G nz n f d
Frus bd gn se des C ba rmutterstrebes Wo a.s
schr f Leb th Gy k 932 C 0
5 BALL, F C Cancer d 1 th els ns of the
f n e evil Te a Stat J W 932 xx

14 BÉCLÉRE C. Tr t ment du a cer du corps de l t rus Ét t 1 d la question Paris méd 937 1 259

15 BÉGOUS Cance du l'et hystérect me il rene Bull et m m Soc n t de chr ot lu 6 16 BENNEY C A An valuation of high voltag roe t

g n rays s the therapy of curcin majof the c rux
Am J R entgen 1 1032 x 11 8

17 BENDS K U br K rc nom d s Collum ute 1 r ch

sor usgegang n r L tpusamputatio s h f (eb tsh u Gynaek 1032 x 8 BERNARO R L's compliatio inflammat r's de la un th rap e dans les cancers du col d 1 térus t finique le applic t ns de d'um Bull Soc

d but et de gyn'c d Pat 932 xx1 73

19 Bloopsood J C C ne of the e it Th m
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m nt Am J Cance 92 x 238

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2 Idem Sulla d gn 5 p ecoce d tum ri gen tal
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23 BO TRILLO C L Cance I the crvi J Med

L cin ati 1932 x

4 BONEY 1 Suggite the nt of carcin magithe cervix Brit M J 1932 9 4
23 Borc H H and Fricks R E Ratium as n

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of the fund the true Am J Koe tg 100, 150 s tw, 733 752 f BaxNisto A List necksoes sold of a cardiac Re degrade ed obst 03 18 78 BROWSHIE W. R. H. L. M. T. H. L. M. T. H. L. M. T. M. T.

besonderer Berneck i ht rung d r Virul nzae der ung n ch Ro ntgenbestrahl g A ch f Cyn k o3 Cxlix 7

23 BUBEN I DE. Tra tem nt du cancer du corns d Lut rus pa les radiations. Le canc r 101 Idem. Radium treatment of canc f the corpus

18

- uters, burg Gynec. & Obst. 1932 hv 791 BURGER, P Fibrosarcome de l'utérus a ec hématomêtre Bull. Soc. d obst. et de gynéc, de Pa 1032 XXI 145
- Idem. Cancer du col au debut avec symptôme charques paradoxaux. Ibid 932 xxi, 5 f
- BURNAM, L F Cancer f the cervix uters. S re Gynec, & Obst. 1911 Ivi. 427 14. BURSEY F. H. Cervical ad endocervical c os ons.
- Texa State J M 933 xxviii, 337 Carno P C Ep telioma cervical, irch de med.
- tirug y especial 1932 xiii, 3 2 Idem. Anatomia e histol gia d I cancer del utero Ibid 193 xm 683 CALDWELL, W E Canc r f the pelvi or ans. Su g
- Gypec, & Obst. 1933 lvi 4 9 38 CARAVEN Image radiographiqu d'une gr se pyo-
- physometrie par cancer v g tant d l'isthm Bull, t mem Soc. nat. de chi 1932 l iu. 83 3) CARRANZA F F Cancer ut rin de u llo tratado por electrocirums y rad terapia. Bol. Soc. de obst.
- y ginec de Bu nos Aires, 932 xh 344 42 CAVIGLIA A Supraclas ulaere Druesenschwellun, und Cervix Ca cinom. Ib d 1931 to 41 COLLLAS D and BELLO R Can e inc p ent de
- cu llo de utero Rev med quir de patol f m nina 193 i 75 az Co tect C Un caso d comon piteli ma cervical Atta d. Soc. stal da st t ginec. 93 xxviti 450
- 41 Co Dater F and ARNULF G Traitement des ne ralgies des cancers pel i ns pa les injecti n ne rolytiques Res d chir Pa 0,12 lt, 63 44. COTTE G La ésection du sympathiqu pel ren dan
  - les né ralge pel ennes hées u canc r du col Gynecolome 1932 XXX 377 CONLES G E. Carcinoma nd sarcoma co-existing in the same uterus Am. J Obst & Gynec 932
- XXIV 200 45 CRILE G W End esults of the treatment f malig nant diseases at th Clevela d Clinic. Surg
- Gynec & Obst. 933 1 1 41
  47 CROSSEN H S Modern tr tment of canc r of cervix t n. J Missouri State M As 935
- 48 Id m Cance of the cervix ten J Am M As
- 1932 XCLF 2149 Idem. Concl sions fom a st dy f fi e year cures
  - m series of 21 cases of carrin ma of the ervix uteri. Ani. J Obst. & Gynec. 93 xxii 550 Curis A. H. Ch monepith homa i th uterus Surv Gynec, & Obst. 932 h 851
- Id m. Stricture of the uterine cervix J Am VI Ass. 932 cvm 861 52 Id m. Countid t s rgical e posure a d rad um
- therapy in the treatment f densive cervical ca ce Sung Gynec & Obst. 933 lvs o 4 53 CUTLER VI The treatm t I carri ma i the t ux with small quantities f radium. Ibid. 1932
  - lv 48 54 D vis J E A tudy of too cervices i cl ding 589 case histories 3 500 microscop c sects as and the gross specim as of 200 b op es. Am. J Surg
    - 93 XXII 3 Davis L Results I treatment of cancer I the uterus at th M ssachusetts General Ho p tal. Surg Gynec & Obst 933 1 1 430

- 56 Dz Broz I., u di uz crso di carcinoina primi o d lla parete anten re della wana. Scritti med. ded call a Riccard Simonini, 93 p 315
  57 Doderstein A De hist lowisch Bewert g der
- Uterusk m om fuer de Mrahlenbeh nd c, Monatsschr f Geburtsh u Gynael 03 r 9 58 Docay Cunethérape intra bd min l postop. ératoire Bull Soc d'ob t et d gynèc de far
- 59 Decembe J Tute f mm qu perd prè la mén opause u ea ce d lutérus Ib i 103 un
- 607 60 Decerno I a d Genthem P Freq e da cante
  - du col de l'utérus en lo ction de la parité Ibid. 193 22,6 2 m. Clas ification m rph longu des can ers da
- col de l'utérus fréqu n e e pacti e des di erses i rmes au ce tre rém nal nu-ca cé eax. Ib d 032 XX 600 DWORZAS H Em B strag zur Frame der grosse
- Uteruscyst n Cyste der Uterusw nd mit Car run m Arch f Cyna k 1932 rl, 63 63 [Editonal] Rad th rapy f cancer f th cervis
- teri Brit. J Rad l. 103 v 6 64 Idem. Med cal uses I rad um bummary of reports
- from research enters to 1911 M d. res council, spec rep s r 1 4 1932 Lond Ha M jesty's stat off EXXET F Recognit n f ca c of th oters to
- earliest stages J Am. M Ass 93 ECVIL, 1684. 66 Eura E H. Romersunar M and Wiese off, H. Da Le halten der trypa ocid a Leberfunk ti n beim Uterusca cin m und in d Gestations-
- periode Arch f Gyna k 1932 th, 5 67 FAURE J L Résultats él ignes des operati ns p é coces dans I canc r du col d I utérus. Bul d
- 1 Acad de méd. Par 932 CVu, 493 68 Id m. Résultats élognés des perats na p écoces dans I canc du c I de I térus. Bull. Soc. d ob L
- et de gynéc de P r 193 xxx, 319 m. Sur l'traiteme t des cancers cervico-uténns.
- Bull de l Acad de méd. Par 932 evu, 755 Idem Lévol ti n du traitement du canter di 6 l térm pa l'hysterect mie large. Irish J M. Sc.
- 93 p 308 Idem. Sur le traitem at du cancer du col d l'utéris. Bull et mêm. Soc nat d chir 193 1 m, 960
- Idem. Sur le trateme t du cancer du col utern.
  Roid. 93 l'un, 39
  Idem La guérison définiti du cance du col utern.
  p r l'opérati n precoce. Presse méd. Par 93?
- 74 FOUTAINE P and HERRMANN L G Clinical and
- experimental basis to surg ry of the pel 10 sym path tic nerves in gynecology Sure Gynec &
- Obst. 932 h 133
  75 Fo cur L. Hysterectomie abdominale totale ou subtotale. P esse med. Par 93 th, 461 Id m. Ce q e toute femme do t sa out concernant le cant r de l'utérus. P de path. comparee. 1937
- XXXII, 193 77 FRANKE STEIN K Bericht be di Krebsmindfrage d r N'ed ich imsch Westfaelischen Gesellschaft fue Gynaek logs und G bureshilfe. Zentralo
- f Gyrack 93 14, 143
  78 FRANKI, O ad Ri Gir, M Ube gutaring und
  bossiting Cerupolypen Ibd 93 14, 358
  9 FRIED C Ungewoehnlich Peaktion bei Kardinom
  - bestrahlung M natsschr f G burtsh. u. Gy nack 193 xc1, 84.

- So Fusco G Cancro sperimentale dell'utero e della vagna Arch di ostet. e ginec 1932 zzzix 315 Idem S I carcinoma sperimentale dell ute o e della
- Vari Thid 1012 XXXIX 407 Gir. F The evolution and future of rad otherany
- in gynec logy Magy r entgen k 7 012 vi ....
- 83 GARDER C H Coll cti e r view of current litera ture o canc r of the cerv r Nelso L ose Leaf Li in Su gery New Yo L Oct 193 p 216 84 GEST S II and MAYUS M Postmenop us l bl ed
- ing Am J Obst & Gynec 1933 xxv 388
- B ll et mém soc n t de chr 193 lvu 1084
  86 DE CÉRY, C and DABORDE S Le diagn stc de
  létendue d's lésio s dan le ca cer de lutérus
- Bull de l'Ass franc n l tude d' cancer 032 \*\*1 162 87 DF Cfgy C and PERROT M A Dr D dun cas
- d'épithélioma malo h'en du corps utérin Ann danat p th 932 x 3 7
  88 pe Géry and lees I ré no simultanée de deux néoplasmes malins dans l's ga es gé taux Bull Soc d'ob t et de gynéc de Par 93 xvi
- 89 GILEERT J B Carcin m f the body of the ut ru in childhood \m J Ob t & Gynec 1032 xxiv
- 40 90 GOLDMANN F U be ge ndh itspolitisch wichtige Leistun n dr de tsche Krankenhaeuser Zischr f d g s Krankenh w 932 kx : 51 9 Gorra M 0 0 i nd mazi n il oent ent rap a
- d 1 tumori malig 1 Clin o tet 1012 xxxiv 506 oz Gosser A Sur le t item nt du cancer du col de
- Lutérus Bull et mém Soc n t de chir D32 03 Gosser A and Wallow E Curieth raped ca
- cers du col de l'utérus Gynéc l gie 193 xx 1
- 94 GRANT I' C Results with hord tomy for the rel f organs W P The det ction f the chincally 1 t nt cance of th cerv with a rep it n Schill rs
- cance of the cerv with a rep it in Schillre,
  L goltest, Surg Gynec & Obst. 1931 | 3.7

  GEFFURL J P and Schwitz H E Symp
  theet my fo ntractabl p in in inoperable cance
  if the cervix J Am M A 933 ci 6

  GRÜNBUT J Rad um therapy c mbined with ur
- gery cance of th uterine cervix Gin k pol La o3 GLEDES B La diathermie gynéc i gique moyen
- au li e péc u, de la cun thérap uté o-vagn le A q pat 930 u 3 3 trager de Gouzy Les py mêtne ap 's traite-m at du cancer du c 1 d lutéru par le rad um OO GURREN
- m ht du cancer du c.i q. tuerro par le tad un.
  Presse méd P. 93 x l. 42

  O GUNNERT A. Wicht ik und Tech k. der Ro nt
  genbeha dl. n be d. Therap e des Cervix b. es.
  K. dagn yt at life 0. 93 u. 67

  tor Guy err d. Gr. whom Quelq es cas de métastases
- ét ogrades particuli em t au ni ea du m t urétral dans le c nc r de l térus Bull d b t
  - et de gyn'e d lar 92 xx 1 2 3 1 d n Q kqueta d n destata.e trograd par teul n ta un eau du métat tral dans le ca cr de lutérus Bull 50 c d obst. et d gynée d l 1931 xx 9
  - og Cuttere, D R port o fity cases of fi e y at ca
  - c reures, Su g Gynec & Ob t. 1933 1 418

- tol Gittigge D and Bacite W. The infraquency of careinoma of the cervix with complete procidentia Ann Surg 1932 xcv1 796
  GUTMAN M Uterusmyom und praekanzer eses
  Stedum der Uterussehlembaut Monatsschr f
- Geburtsh u Gynaek 1931 Ixxxx 309
- Geschlechtsorgane besonders der Geb ermutter
  Ztschr f Geburtsh u Gynack 1932 cm 344 deringen des Rectums beim Collumcarcinom
- Arch f (yn ek 1012 ch 1 6 T S HAMANT A and LOENIG R Des m vens sociaux
  - de dépister le canc r du col de l'utérus Re franc de gynéc, et d'obst 1932 XXVII 52 lem Des movens sociaux de dép ste le cancer du
- col de l'utérus. Gynécolog c. 032 XXXI 82 Happyrays. Traitement du cancer du col de l'utérus
- Bull et m m Soc nat de chir 1032 lviu 1 07
- Idem S rie tra tem at du cancer du col de l'utérus Ibid 1932 lvi 13 1 Hastinger G Port oleukoplak e und Karcinom Ztechr f Geburtsh u Gynaek 032 ci 622 1 2 Haver W Die Behandlungserg buisse d'r Bonner
- Franchi nik bei Gebaermutterkrebs seit o 2 Strahlentherape 932 xl v 311

  1 4 Haylásek L Cancer of the ut rin cervix caus ne
  - Rozbiedy chir a buerneral s ptic byzemi 87m ek 93 xi 3 HEALY W P Carcin ma of the cervix Technique
- of treatment Am I Roentgenol 1931 xxvi 734 752 HENKEL M
- D s K cin m det w bli ben Gen talorgan Kh sche Beobachtungen und E fahrungen Med Khn 1932 xxviii 60
  - HINROTAY J L Q Iques po nts de technique curie Bull Soc dob t et de gynéc le thérapid
- Pa 193 XXI, 720 8 Id m Quelques point de techn que curiethérapique dans le c nc du col utérin Bruxelles-méd
- 193 21 164 1 0 Herman K Ueber e n Myosarkom des Uterus mit Lu hm tastase Roentgenp axi 193 iv 211
  10 HERRERA J C Ca c r del cuello ut rino Diag
- nost cop eco Chn y lab 1032 p 63
- HE MAN J Ir ad ation of uterin and ovarian ca 1 2 Idem. Experienc s with radiological treatment
- cancer of the uterus and ovari s. Acta radiol. 1932 ur 3 0 21 HINSELMANN H Ueb r die Abgrenzung des Matrix
  - und des ka momg betes im Bereich der Portio u d Scheid Mu nchen, med Wchnschr 1011
  - lxxv u 094

    4 Idem. Dr neu Kampf geg n d's Portio- und
    Sche d nka nom. Ibid 1932 lxxx t026

    5 Idem Ausged hnt atyp sche karein de endo
  - phytisch und e phytische Epithelbedecku g der orde n Sche denw d bei inem P rtiok cinom. Zts hr f G burtsh u Gynaek 932 ci 254
  - 26 Idem. Be cht ueber ein end phytisches Port ocarc n m \ n < 9 8 cbmm einer zulzenerten Ob tilaech von 35 45 mm. e haltener Matrix on 95 mm u deine groessten I le on 85 mm ch e ner D monstration n der Geburtshillichen Gesellschaft zu Hamburg am 8 Mai 1911 Ibid
  - 7 Hoe to E Inc pent sarcomato den neration in a pedunculated fibromyoma. Med. I & Rec. 193 CXXXV 385

- 8 HOFBAUER J Ueb Beziehu gen des Hypophy senvorde lappens zum Uteruscarcinom
- Wehn hr 1032 11 98 129 Idem Epithel I pr bferation in the cervix utera durin pregnancy a d its clinical implicatio
  Am J Obst. & Gynec 1933 xxv 779

  130 Höcler H U ber das Zusamm nitreffen von Portio
  - carcin m und Prolaps A ch f Gyn ek 193 cl HOLZBACH E W s leistet d e komb me te (Opera
  - tions und Strahlen ) Behandlung be d Coll m carcin men des Uterus F rtschr d Therap HORNO R A A p po to d l M ckul tz
  - operac nes de canc uterino. Chi vi b 1032
- 33 JEFFREIS E M Cervict So th. M & S JONES T E Treatm at of carci m f the cervix
- J Am M Ass 1932 cix 880
  135 KARN E 4 Int rolat ral chordotomy fo tract
  abl p m J Am M 48 1933 025
  136 KARNEER H De m riphol gisch Reifegrad des Uteru karcınom und se e Bed utu f d operatı e Beha din Zentralbi f Gyn k
  - 93 I 4 7 37 Id m B handl gse gebnisse u d Da e heilungen beim Collumcarcin m. Arch. f Gyna k 93 cal m 12
- 38 Idem Das postoperati e Rez div d Ca cin m e lli ut n Sein Lok lis tion Symptomat I gi Diagn e Differ ntiakliagn e Prophyla un Therape Ibid 103 cl 330
- 139 Idem Das post perative Rezidiv des Carcin ma colli t ri. Klinik d nz lnen Erscheinu osfo
- men Ibid. 1932 ch 356 KAPLAN I Women help in cancer work Hosp Soc S rv 1932 xxv 256
- 41 Idem R duat on therapy of canc r of the c rvix at Belle u H pt L Am I Roe tgenol. XXVI 746
- 42 Idem Radiati n therapy in gynecolomic malignancy Am J Obst & Gynec 1933 xxv 368 The use and value of gold radon seeds I
- In M Ass 1933 c, 765

  Kerrs P J Primary carcinoma of the fall p an tube Ca di n M Ass. J 93 xxv1 73

  Kerkeis H Ueb r die S nkungs eschwindigk it
  - der r t n Bl tkoerpe chen beim k cinome d w blichen Genitalorgane Med Klin
- 146 KEE E. F E End results of radium therapy n 475 cases f cers cal can er Surg Gynec & Ob t.
- 933 lvi 416 47 KEENE F E d Kimbrough R A Jr End
- re ult f rad um th rapy in ca cinom of the cervix Am J Obst & Gynec. 93 xxiii 838 48 Keller R. Prophylan d cancer du col. Bull. Soc dobst. et d gynéc de P Q12 XX1 146 49 Idem Lap parat n du cance du c l u
- Arch franco-belg s de chi 93 xxxiii 590 Idem A tes histol giques et cliniq es la prop gat ad canc rdu col u gin. Bull. Soc. d bst.
  - et de gynéc de Par 932 xx1 5 Id m Au uj t du dépista e d cancer du col pen d nt l gros esse Ib d 1932 xx1 77
- 52 KE SLER R a d SCHMIDT H D prim re M bdt tund No talita t nach Radiumbehandlung C llumkarcinoms. Strahlentherap zh 349

- 153 KIRCHHOFF H. and EIRUND A Ueber Vul a und Urethrakarzı ome Ibd. 1932 zliv 335
- KISTLER G H. A p pallary mixed tumor of the body of the uterus Am J Cance 932 xvi, 399 155 KLETNE H O Zur Frage der E tatebung von Strahl nschaed sungen infolge orangegang per yphilitischer Inf Ltion (nach Radiumbestrahlung
- on Collumcarcin men syphilitisch r Fran A ch. f Gyna k 1932 cxhx 213 156 KOLDE W Lebe Sp trez di e be Strahlenbe-
- handlun des Geba rm tterkrebses. M natischt
- f Gebu tsh. u Gyna k. 932 xci, 4.
  157 Korden R. A Lumbar sympathet ramisection
- for the lief of p n due to calcinom of the uterus Elin is M J 93 Itii 5 3
  58 Kretschuer O S Leucoplakia of the uteru
- CETVIX. Am. J Obst. & Gynec. 93 xxiii 835 159 Krcheich R. Uebe das Saeure-Base Gl ch
- 159 Karwerer R. Uebe das Sacurè-Base Ci de wich beum Gentalk r. m der Frau Srnh in hange og Si er K. b Sene E ist huge de Si er K. b Sene E ist huge de Si er K. b Sene E ist huge de Christian og Ni nan, M drich (1 Krosa, 1 nan, 1 nan
- mique d 1 hy té ectomie abdomin 1 s bt tal t talisée J de chir 93 XXIIX 64
  63 L. ORDE S nd WICKEAU J L. D Radi th rap
  des Kollumkarcinoms in der Krebszentrale des
- P n er We chbildes (Statistik d I hre 1021 bis 1026 ) Strahle therap e 1032 xlin, 301
- 164 LACASSAGNE A Results f th t eatm nt of cance of the cervix uters. Brit. M J 1932 11, 9
- LACKNER J E a d LEVENTHAL, M L. Chorto ep th! ma f the ut rus J Am. V Ass
- 032 XCV1 136 166 LAFFERTY R. H and PHILLIPS C C. Treatment of carcin ma f the rvix S th. M J 93?
- 167 LAPRAM VI E. R port facase fch no ep theli ma followed by the Friedman test. Am. J
- Ob t & Gynec. 93 xxu 905 68 Larzko W Behandlung des moperabl n Ut rus-
- karzinoms. W n. klim. Wchnschr 932 zlv 52 69 LENCZO SKI J Gleichseitiges Besteh n gemischt t
- Kr bs des Uterus. Gin k polska, 93 x1,46 event Herrenschmitt d Godard A propos 70 LEVEUF HERRENSCRAIDT du tra tem nt des cancers du col de l térus Bull.
- t mem. Soc. nat. de chir 932 lviii, 1 73 171 Lund C C Cancer dw inht. Arch. Surg 1932
- 174 L NCH F W Afi t fifteen yearf llow pst dy
- of 102 c ryical cancers. Am. J Obst. & Gynec.
- 173 LYNCH F W d BARTLETT E I Cancer I th cervix a d cancer of the breast. S rg Gynec. &
  - Obst. 933 l 424. mato ut rus after the X ray menopause Am.
- J Obst & Gynec 1932 XXIII 08 33 ACFARLANE C d HO VE M E. Cancer pro-175 MACPARLANE C
- phylasis. Ib d. 103 xri 406 44
  M. cl.ean J Th curability I cance Sure
  Gynec. & Obst. 933 1 7, 419
- 77 MARTA A Il comportam t d'll eq ilibri acido
  - bas d l sa ou e d ll urma nei tumon maligni dell utero in rapporto anche d'altre f rm dell apparato genital f mminile ed al p rpero in ispecie. Arch di ostet. ginec. 93 xxxix 69

- INS MARTIN I' H The curability of cancer Curg
- Gynec & Obst 933 lv1 412

  Gynec & Obst 933 lv1 412

  TO MARTINDLIE I Rece t ad ances in deep \ ray therapy in non-malionant and maliona t uterine deese Proc Roy Soc Med I, nd 1012 22
- .so Managemen K H Lenconlaku f the cervix ut ri
- 180 MERITIOFF N. H. LEUCOPIARIA I IN CERTIFICATION AM J. Obst. & Oyn. c. 1932 x. 1v. 57
  181 Masen. W. F. Th. mant nace of a balthy
  cervix. South M. J. 1932 xxv. 946
  82 Máryá. M. U. be einen Fall on prolabjecte und
- NAMA M U be einen fail on prolablette und durch Druck de Slym in Lazzen tet Cervi int Cerv sa kom bei einem basedowkranken M d chen Zentrallol I (ynack 1931 l 2730 183 Mao C H C na d rat ons of some infections and
- 183 Myo C H C as d rat ons of some infections and deep rats as fit ut nne fevr v Su g Cyace. & Ob t o j liv 600
  184 Mracar R. L c hro épithél ome milin Étude émé ol g que Bull, méd l' r o 3 liv 650
  185 Mryre S Métastases rét grades dans le ca ce du
- col Re fra c d gynéc et dobst 103 87 1 6.8
- 86 Miguicz Rabecki F von Erfahrun umt dir Filtrok and ton (1+ kochung) v.n.G. schwiel sten Zt chr f Geburtsh Gynack 1032 C
- 187 MIRCHER RADECEL F VON d VOLBEACHT R
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  traibil f Gynak 6,93 1 i 844
  183 Mirg. S. Kadat th
  py cc cinoma of the
  censuluten Inda BINT Radiol 1033 v 55
  189 MOLTIVO A H. and BOXEO P. A. CS cer del
  mu 6n d levell uter. Sup foliasus Semana
- méd 934 i 680 100 Mo op R Teatment i cance i the ute n
- cervix Bull t mem Soc at de hit or lyii
- 191 MORAPS BYRROS N DE Priphylaxia de arcinoma ut rin Tre d gynde edobt 1935 c 35 92 MEZLER P. Epth ion og indro-cub que de l c té du c riya utér a ec p pongazt n au 193 teme lymphatiq e Bogo négatin B il de utén Soc d'chruspi ns de l'ar 932 t 4 93 Mar 18 F. La 200 Ct lli l'hazar pe tum
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- and Idem Trreversibl Schlimhaut und Cefaessver aen lerung n der Hambl se nach gyn et log schen Roentgen und Rad umbestrahlungen Zentralhi
- f Gynaek 193 I 1722 drawn from the study of 100 case treated 11th
  radium Vigini M M nth 1932 l u 782
- méthodes de radium-chiru ete de l'épithéliame du col avec d'aut es modes de traiteme t d'ec can
- cer Gynécolog e 1933 xxx1 5 2 ) PRINTED E L 1 C neer of the rvi in null jarou

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  206 PRILLE F Rogerts not much Darst II n on
- 266 PRILLIF F Roentg nol "isch Darst li n on
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  2 7 Id m Statusk d r Karz ome des Collum uten und
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- 1032 17 217 and Id m tatistik der Coll m und Scheidenkar in me der Jah e 10 0-1022 m t mer Uebersicht der
- R sultate der Krebsbehandl ng fuer die Jat e 913 925 Ibid 1932 I 93 em E haltun d r G nitalfunktion n ch Be on Idem
- strablum ween Uteru karz noms Ib d 11 400 Id m Knochen krankun en ba weg n Uterus
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  2 2 Idem. knoche e krankungen bei wegen Ut zu Ca
- ci oms mit Ro teenst ablen he t ablten F uen Ibid 193 hv 303
  3 Id m Poe tgen l "isch darstellb e Metast sen
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- Gyn ek 932 c 48

  4 Halifkera V M N 11 m al c'hlui ute n
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- u gynec e d obst 193 1 399 7 PRESTITO C tizac on del multi cerv cal Scriava m i 032 ii 736 8 PROCE I I cerv
- 18 PROCTE I Joint in the pretoif cerof the cerve So th M&S 932 1 50
  - to Regato C C mment é t ret c mment gu rir les c n ers de I térus R v de p th c mpar e
  - 032 13 106 Id m C mpuration des valeurs cu t ves d 1 hy térect m et des méthod radi thérap q s dan le t t ment d s épithél oma c ruco- térm du p mier degre Bull Acad de med Par 932
    - 67 6 RESRA ad Curter M A case of a plate care nom of the body I the ut rus Am I Ob t
  - Care nom of the body

    d. Gynec 103 xx v 202

    REMMELTS R. The campa on aga t ut

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  - sch vederl I di 193 kxxi 86
    223 RIES F Erosi n le plaki a d the colpose pe rel t n to care ma of the trust Am J Obst.
  - & Gy ec. toj; xx 303
    224 Post 300 J H Case report I cancer I th uterus
    41 a a twe ty veny old p ra J Oklaboma
    State M Ass 932 xxv 430

225 ROESSLEE H. Ueber metastatische Karsinome der bebeide Zentralbl f Gynaek 193 lit 469 ROTE R. Carcinoma of the cervix with bone m tas tas s. Radiology 10: TVL: 5:3

22

- 227 Rypp's E L Y cay therafy and its use in carrinoma of the cervix J lows State M Soc 101 xxii 70 228 Salson L Rehandlinosergebnisse weil ther Gen stalcarcineme. Hamburg D s toti
- 229 SAMUEL, M Zur Technik des vagunilen Op-merens Zentralbi. i Gynaek. 1932 lvi, 531 230 Sasaki M The influence of radium on tuberculous
- carcinomatous and simple erosions of the portio vaginalis uters. Part I. Tuberculous erosion, J. Orient. Med. 1932 xv1, 55 II SCARPITTI C Studio dello stroma nell' voluzione d I cane o dell utero e suo valore pr mostico
- (f)bre ar stofile Genesi conn ttivale Eo inofilia) Ann drost t e genet 1932 la 661 232 SCHAEFER W and Witte, E Eine neue Koer
- perhochleuroentgenroehre zur Be-trahlun von Literustumoren. Strablentherap e 1932 zluv 293 233 SCHEFFEY L C and CRAWFORD B I Ad nocat cinoma of the cerus in a twenty two-menths old
- child Am J Obst. & Gypre 1932 xm 118
  234. Scherrey L C and Thymnu. W J End r ulta
  in the treatment of carrin ma of the cervit with
- radium. Ibid. 1931 xxu, 17 235 Schiller W Bedeutung der Kolpo kopie Probeabschabung und Probeezcar on fuer die Dia pose des Gebaeromtterhals rebses Wien, klim
- Webaschr 1932 lav 1 6 36 Id m. La ly diagnosis of carcinoma of the cervix San, Gyner & Ob t. 1933 lvi 2 o 237 Schuttz, H The correlat on between the deve op-
- ment of the growth and the symptoms of ca Gynec 1932 xxxv 50 238 Idem The techn que of radiation therapy in ut nine
- carcinomata Ib d 1933 xxv to
  239 Schröder E. Das kommunale Gesundheit-amt und die Kreb bekaempfun Arch f squale Hyg u Demos 1932 vu. 232 240 Schunert E vov V rheenfige Erfahrun en mit der
- Karzinge therapie mit strem harten Roent en strablen Strablenther pie 1932 zli 293 241 SEEMEN H VON Alliemenn und spelielle Fl ktrochirutme. Mit einem Be trag. Elektroch rurgie der Gesel wurds e in \ rbindung mit Strah n behandlung von O Schuerch 1912 Leilin
- Springer SHERRILL J G Three diffe at kinds of tumors in the sam pel is Kentucky M J 1 32 rrs 300
  243 Starsov F E Technique of radium t eatment f tervical cancer int. | Roentgenol 1932 xxvii,
- STREDER A. Le trastement du canc r du col utério 244
  - Cynécologie 932 EED, 433 SECTION F W Ca curions of the cervin J T n
- nessee State M Ass 1932 xxv 339
  246 Soreian L Ade osarcoma of the body of the
- uterus Am. J Of st. & Gynet. 1032 ni 9 1 247 SPE CPE, H. R. Remarks on total abdominal bys terectom; to my ma of the utera with pottal reference to cancer of the terv x a ter the sabtotal
- operation Brit M J 1932 1 1157 248 SPINELLI 31 Il trattam ato dil cancro delli ti o
- nrda Chrica Spinelli. Actinol rapia 03 1 71 249 Strveys, T. G. Rhabdomyosarcoma (grape like sarcoma) of the cervix. Proc. Roy. Soc. M. d. Loud 1932 my 170

- 250 Störge, E. Kollumkarzmom und Schwangerschaft. Ztschr f Geburtsh u Gyntek 1932 tt, 437 STORCKEL, W foreckel, W. De Bekaempfun des Lie karzinoms Therap d Gegenw 1932 luni, 252 STRICKIN & I Primary ad nocarcinoma of th agina Proc. Roy Soc. Med Lond, 1921 my
- Ideta Adenocaremoma of the arma, J Obst & 2 1
- Gynnec Brit. Emp 1932 xxxx 567 234 Siva J Die Le. tun en von George Prochasta ( 740 1822) fuer die Gynnekologie Ark i
- Gynaek 1 3 czlu 23 255 Scesukyy i Zur Ve'nn etun der Mortalita.t nach der Wertheimschen K zz nomoperati a
- Zentral I f Gynaek 1031 l 1462 2 6 Tayton H. C. Jr. Endometral hyperplass 20d carrangma f the body of the uterus. Am. J
- Obst. & Gynec 2932 28112, 309
- 257 Idem. Five yea tures of gynecolorical canor
- Surg Gynec & Obst. 1933 lvi 4 2 3 Idem To cov id one (primary breast and ut noe
- cancer Am. J Cancer 1931 av 2 2 9 Teres ov H. I Uterme intubator a new type f forceps. Rad olory 1932 xviii, 130
- afo Thomas C G Ea if diam ais of caregroma of the cervix J Iowa Sta e M Soc 1939 114, 528 adr T's ERIND Contre le can er d lutérus Rev de
- p th comparée 1932 EXXII 119
  Tovers E Tomor of the f male g nital organa
- Nederl Tudoch, v le lo k. en Cynael. 1931 XXXV 178 263 TORRE BLUNCO B handling des Collumiares oms
- An. had mid-quir espan 103 xvii, 20
- Paris mild 93 1 20 265 Toyosimus J Clinical observations of the stroma reaction in carcinoma of the portio varinalis
- Jap J Obst & Cynec. 932 rt. 203 255 Taxes S L Carcinoma of the uterus complicated by tabal g tauon, Am. J Obst. & Gynec. 1932
- XXIII 223 267 UNDER UN G. Ueber die Ha affah it des Sarcoma
- t en Klin Wehtsch 932 X 115
  - 268 VALACE, L. Therapy of gyorcological diseases on b rad am emanati n (g tal carcinoma) Bratisl.
  - l ká listy 1922 mg 342 260 Laux D M Adenomyoms of the uters with to bercalous aniecaou I Ob t & Graze, But
  - Emp 937 x 1x 594. Vipaxović, 5 Radumbeh adlun des grutalen Krehses petiell des Gebaermutterkrehses. Med.
  - Pre l 932 vii, 116 271 Viil. 20 F Trai em at chirurgical d' cancer du
  - lutéria. Gynecolo 1932 XXII 54
    72 VILLARO E, and LABRY R Ré alt 15 de l bystérec
  - t me flargie dans le cancer du c l'utenn. Ib d 1037 1331 () Voct E Zur Bekaempfun des Utert karcinems
  - duch die Fruehdiamose Th rap d Gegenw 932 lettu 255 274 Volbracht R. Erf lee u d Dauererfolge der uperati en B handlun, des korpuscarcia ms. 1932
  - Be hn Diss. 275 Voltz F Venere Errebnisse der Strahlenbehand lun, de Utera karcanoms. Radiol. A ndschau
  - 276 Idem. The radi therapy of carcinoma f the uteru-Brit M J 93 11 907 277 Idem. De Strahlenbehandlung des Korpuskar cison. Strablentherapie 1931 thy 25

- 278 Id m De Radiumtherapie in der Gynaekolom Fin ammelberi ht ueber thre Entwicklun, im
- 1 then Jahre Monatschr f Gebu tsh u
  Gynaek 1932 xc 229
  270 VVIA S Die Behandlu g des Collumcarcinoms mit radibales totales Hysterektomie Re Obstet 1027 Y 127

MAIN RIGHT J M Is cancer curable? Surg Cynec & Ob t 1933 l 1 415 Wasmook H Th management of cancer of the cervi with emphas on the diagnosis and treat ment I Med Soc N Iersey 103 xxix 623 W RD (r G The p esent stat s of the tre tm nt of

carcinoma of the uterus M nesota Med 1931 xiv 943

- & Obst 933 ivi 434
  284 WARD G G and FARRAR L K P Re ad ation in the rad um therapy of ca cinom of the cervix
- uters Am J Obst & Gynec 931 x 543
  28s WARREN S The grad ng of carcs oma of the cert x uten uch chedat autoney Arch Path 102 v
- 53 286 Id m Stud es on tumor metasta is Surg Gynec
- 286 Id m Studies on tumor metasua is oning Cyme-& Obst 1933 I 174
  287 Weaver C H The present stat so cancer of the certixa in luterus Am J S rg 1932 xvi 28
  288 Weinel W De Rolle der Strahl nih rap e bei den
- Ge italkr been des We'be Wien Ah Wchnschr Orr vlv 6

280 WENNER H & Panhysterectuma nor cancer do collo Rev de gynec ed ol st 1032 xxvi 27
290 Werner P Therapie des Karcinoms der weib
lichen Geschlechtsorgane Wien klim Wchnischr

1032 zlv 594
Therapie d's Carcinoms der weiblichen Ge 201 Idem

- IXXXII 1187
  202 VICKHAM Y L and TOUFLET H Accouchement
- nar les vo es naturelles d'un enfant d'aspect sain avé actuellement de trois ans survenu an ès cun thérap e pour un cancer du col de l'utérus Bull Soc d'obst et de gynée de Par 1022 xxi 258
- 203 WINTE H Ergebnisse der Roente nbehandlig erde Uterussarkoms Rev radiol e fisica med roar Festschr Busi Pt r
- 204 Id m. Zur Strahlenhehandl ng de A tenncarcinom cervicis Muenchen med Wehnsche Ing lary mi
- 1015 205 WOLVE S A Mural sarcoma of the uterus with a report of 14 cases Am I Obst & Gynec 1932 XX111 232
- of Idem End results after e cision of the cervix intepreted from pathological findings. In d. 1022 TX1V 87
- 207 WOOD G A Cervical cancer Its 1026-1020 in cidence in 5 New York State cities Its prevention Its future N York State J M 1932 27.22 26.

# ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

Straus D C Tuberculosis of the Flat Bones of the Vault of the Skull S f G1 c & Ob 1 1933

Straus discusses tuberculosis of the flat bones of the skull on the basis of 3 cases of his own and 220 cases reported in the literature Tuberculous lesions of the flat bones of the vault of the skull constitute of the nate points of the value of the same constitute about 0 2 per cent of tuberculous bone lessons. They are most frequent in early childhood and usually secondary to tuberculosis elsewhere is a rule the infection reache the skull through the blood stream andles frequently by way of thely mphatics Trauma often seems to be a p edispsing factor

When the bone infection 1 of hæmatogenous origin the initial localization is in the vascular can origin the initial incampation is in the vaccinal can cellous bone of the diploe. In a few cases the disease begins in the periosteum and very rarely the site of origin is the dura The bones most frequently in volved are the frontal and the parietal. More than one focus of nvolvement is usually demonstrable Two types of the disease are generally recognized the circumscribed or perforating t) pe and the diffu e progressive type

The chief sign is a swelling of variable size due to a subperiosteal abscess. The abscess may later perforate with discharge of typical tuberculous pus and subsequent fistula formation Of ad n the and scorequent instance of the second of agnosis are the tuberculin test (especially in 3 oung children) and the roentgenogram The latter shor s one or more circumscribed punched-out looking defects in the bone Smears cultures and guinea Pg moculation may also be of aid. The condition must be different ated f om gumma osteomy cities osteosarcoma perforating mai gnant tumor cephalo

hæmatoma sebaceous cyst and actinomy cost The promosis depend upon the gravity of the associated tuberculous lesions and the extent of the disease in the skull. If the gene al condition is good and the cranial les on is circumscribed the outlook is good Cases of primary tuberculosis of the vault show the greatest percentage of cures The only proper treatment is radical surgical removal of all diseased tissue J CY B VI VIOR VI D

F oelking II Ectopic Mixed Sal vary Gland Tu in the Region of the Face (Z Kennt is d ekt p h n Sp scheldrue mischges b u i t a ekt p n n p icneiurue miscnges m u i t im Ges chi be b) Zi k f 51 m i 933 tt

Vixed tumors of the large salivary gland are very

similar phylogenetically morphologically and hi

tologically to mixed tumors of the lachry mal glands their parenchymal cells are generally assumed to be of epithelial rather than endothelial organ and to arise from elements displaced during fetal growth

The author has collected from the literature the reports of mixed tumors which in cellular structure and behavior closely resembled typical mixed tu mors of the salivary and lachry mal glands but were located at a distance from these glands. These re ports were made by Larabne \asse Ebenmenger olkmann Puposac Landsteiner Bou sset Cem touxmann rupovac tanustriner pou sset em jonofi Coenen Looser Guleke Lenormant Duvac Jonou Loenen Looser Guere Lenormant Duvat Cottard Krompecher Brueggemann Raach Bar bezat Becker Bergemann Wick Kummel Tess mann Aresbig and Fi cher Wasels

Freeling studied histologically a growth in the canne fossa which was sim lar to a mixed tumor of the parotid gland a basal celled epithelioma and a top cal mixed salivary gland tumor in the region of the nasolabial fold and a tumo resembling a mixed salitary gland tumor occurring on the tarsus of the upper evelid in the region of the superior lachrymal gland but not connected with it

From the findings of his histological stude he concludes that all of these ectopic neoplasms should be classified in the same group with the typical mred tumors of the sale ary and lachry mal glands on the basis of the type of their parenchymal cells and the origin of the growth stances was the tumor situated el ewhere than n statice was the tunner streamer transition the face Froeking believes that these ectopic to mors are derived from cells di placed from those parts of the ectode m which under normal cond tions possess the abl to to form salivary or lachty mal glands These cell wander nto the connective the surrounding mesenchymal cell to undergo prol feration and lead to muco d and hyain changes This theory will account for the mucoid and his lin areas in the connective tissue of the tumors The author refers to fort) cases in the literature GEORG SCHWIDT (Z)

G ceres R 4 An Operat nfor th Rel fof Con Ent I Pto s P or R Soc II d Lo d 1933

Cases of cong nital ptosis may be di ided into three classes (1) parti I ptosis with fai independent three classes (1) party spread on the acceptance of the art action (2) complete pross with 1 ttle or no le ato action but with good upward mement of ement of the gl be and (3) complete ptosis with defic ent up-

Fş

In order to estimate the amount of levator action present in a given case it is necess ary to place the hand firmly over the frontials muscle while the Pa tent makes an attempt to open the sye. The author di cusses chiefly cases of the second class which he believes are the most common. He has a rock a garded the Vlotats operation as a good mag has a cocurred to him that a better tend and that and cocurred to him that a better such a that had been a standard by attaching the field to the superior rectus that the present the superior rectus and the superior rectus the superior rectus the superior rectus that the superior rectus that the superior rectus the su

A controlling sature is first inserted in the conpunctua immedia alei, above the corners and the eye
depressed as far as possible by means of it. The
superior exposed by a horizontal incision through
the conjunctive and a squitt hool, is passed under
the conjunctive and a squitt hool, is passed under
the tendon (Fig. 1). A silk, thread is then pushed
under the tendon the hook, is subthain an abuse
to so the superior and a squitt have a superior to
the two end of a thread are secured by a Spencer Well
foreps. The eye is then controlled with this than
instead of with the preliminary conjunctival suture
when much we removed

Next the upper lid is everted and the conjunctiva abo e the inci ion seized by forceps and dissected upward until the upper edge of the tarsal plate is exposed The upper ed\_e of the tarsal plate is gripped centrally by catch forceps and on each side of the forcers a thin strip of tarsus a cut with a fine pair of bent sessor, from without inward and from within outward respectively. Each strip is left attached centrally. The width of the uncut area of tarsal plate between the strip is about the ame as that of the superior rectus tendon. The strip of tarsal tis ue should be as long as possible (Fig 2)
A to 4 needle threaded with to 1 silk is passed through the end of one of the strips and again through the corresponding edge of the superior rectus tendon and a similar suture passed through the other strip and the other edge of the tendon. In order that the relative positions of the eye and eyelid

may be judged the sutures are then drawn tight





without being tied. The edge of the lid should slightly overlap the upper part of the cornea

This operation may be done under general or local

Great care must be taken to prevent exposure to be to me administration of the some administration of the upper laboration of the some administration of the upper laboration of the some administration of the upper laboration of the some administration of the source administration of the s

After healing has taken place and all reaction has disappeared it will frequently be found that when the eyelid is raised the kin of the upper lid is apit to fall in an unsightly fold over the la hes. The skin is flabby and seems to lack the normal tone. This



Fg Stowing th contril g ut r and the



I'g 3 Th d tted l sid ate the potti the treal plate tarsal strip period tu t d n and sut es who the ope this complited

can easily be remedied by a plastic operation carried out according to the principles of the Hotz operation

Leslie L McCol M D

Pereira R F Hydat d Cyst of the Orbit (Ouiste b d tfdi de l 6 bita) Rev Asoc med a g 1 2012 zl 708

The author reports two cases of hydatid cyst of the orbit which were operated upon successfully. He states that cysts of this type in the orbit are rela truly rare. In Vigentian they constitute only a per cent of all hydatid cysts. Vales are more frequently affected than females because they are more frequently exposed to the infection. Pereira a patients were fifteen and thurteen vears of age.

The beginning of the disease: generally slow and gradual but Schmidt has reported a case in which intense evophthalmos and loss of vision occurred within a month. In some cases the development of the condition requires years but the average length of time from the beginning of symptoms to opera.

tion is eight or nine months

As a rule the first symptom is pain beginning with a feeling of weight or pulling in the back of the orbit. This may increase until it causes insomial vertigion and delinium. In some cases it may be continuous but more frequently it is intermittent. It may story for a while when exophibilition begins and record later. It may redulate in various directions—to the point of entit of the supra-orbital new or or to the nast frontial temporal or infra-orbital regions. There are cases in which it radiates to the occupius and unolves the entite half of the shull and face on the side on which the cyst is bloated.

Another early symptom is diplopia. The is very frequent but not constant. It generally precedes the exophthalmos

The frequency of the crysts in muscle explains the catamets and recognises of partners and partners and continuous and recognises of partners and partners and continuous and partners and continuous and the crystall caused by the cryst interferes with the movements of the e Expositialisms is common to all tumors of the arbitrate compitalisms is common to all tumors of the bright stage due to a hydrid cryst of the orbitrate partners and the crystallisms and the crystallisms and continuous and conti

At fart a hydatid cyst of the orbit cannot be pal pated. As a rule it reaches a size between that of a walnut and that of an egg before it is perceptible. When it is stituted in the upper part of the orbit and compresses the levator palpebre muscle it causes prioss which may become permanent if operation is not performed before the muscle and nerve have been serously damaged. The tumor is generall round.

No fremitus or fluctuation can be noted e is no pain on palpation. The local tempera ture may be slightly elevated. If the cyst is back of the evaball and presses the eyabil forward it cause the permittings but if it is lateral and presses the eyabil against one of the walls of the orbit it cause myops from enlargement of the anterposteror axis Astigmatism is less leequest. Disturbances of accommodation are common. In the majority of cases there is mydraisa with paralys so of the clairy muscle and ims probably from compression of the muscle and ims probably from compression of the muscle and ims probably from compression of the muscle and in the probably from compression of the muscle and in the probably from compression of the muscle and in the probable from compression of the muscle and codem of the disk are frequent. They are not duced not only by pressure but also by the torn catton of the cys fluid Vision may be restored if operation is performed soon enough. Color vision is preserved except when alrophy of the disk occurs.

The visual fields are rarely affected

The prognosis with respect to life is good and with
re pect to vision is good if operation is performed

early

The differential diagnosis of tumors of the orb t is difficult. In addition to exclusion there are three biological tests of value in the diagnosis of hydric dosis the Weinberg reaction which is a complement deviation reaction the cosmophile count and Casmi sintradermal reaction.

The treatment is entirely surgical Puncture of the cvst was done formed) but has been given up. The treatment of choice consists in extracting the cvst through an incision in the conjunctiva and pulling out the germinal membrane with the forceps or if the membrane is adherent curetting it out.

AUDREY GO S NO GA M D

Viann I On Congenital Hyaline Membranes on the Posterior Surface of the Cornea Bul J Oph h 933 x 21 449

Mann says that to explain convenital hyaline membranes on the posterior surface of the cornes it is necessary to consider (i) the possibility of a similar condition arising from any cause in post natal life and (2) the po sibility of a purely embryological explanat on With regard to the first poss bility he says that new formation of hyaline ma terral in the eye from chronic irritation occurs in both glaucoma simpley and chronic indocychtis Collins and Mayou state that it is found more often in infantile glaucoma (buphthalmos) than in the glaucoma simplex of adults. The say that the new formation of a hvaline membrane on the antenor surface of the iri may be produced beneath the layer of endothehal cell This membrane seems to be continuous with Descemet's membrane around the angle to extend over the peripheral anterior synechia and to be produced by the mesoblast s endothelial cells

Herbert used selecti e stain g with acid orcein on the anterior parts of chronicalls inflamed eyes and showed a photograph in which the l mitans externa of the chiars bods ended in a glass membrane critwork representing the persphers of the indiato. He tates that fee epithelial cell may andler forward leading to laminated hyaline ma terul on the corneal sade of the angle and that in cyclatis luminated tissue in the anterior chamber lacking the dense glassy appearance and the stanning characters of glass membrane may be found extending up beyond the middle of the back, of the corners and may be covered by a fairly thick single layer of dense new hyaline tissue exactly, like Descements membrane Under irritation the less epithelium can produce hyaline material in the same way as pigment epithelium It seems then that under the inducence of inflammation both of the control of the control of the control of the of the control of the

In these cases there seems very little evidence that the abnormal membrane was so produced In no case except the case reported by Ballantyne was there any trace of precipitates or any posterior synethize of the uveal border. The presence of a fetal rest cannot be assumed since at no time after its formation is the pupillary membrane adherent to the corner and the corner is not covered by ne tipheral hyaline tissue in normal development \ possible embryological rause might be an abnormal ity of the postendothelial tissue which forms the anlage of the pupillary membrane and anterior layer of the iris stroma. This tissue, which is marked in rodents and very moorly developed in man can be seen in the 12 mm stage in human embrags. Possi bly if it remained too long in contact with the periohers of the cornea it might lead to the forma tion of hyaline tissue at this site and to abnormality of the pupillary membrane

In conclusion the author states that we may say only that the condition is congenital and that fetal inflammation acts as the initial cause

LESTE L. McCov. M.D.

Thomas J W T Microscopic Appearances of Corneal Graft B ii J Ophih 933 x 1 549

Dense opactites in the corneal grafts studied by the author were associated with (i) riss adhesions (3) folds in Descemets membrane (3) next issue (matton behind Descemets membrane (4) vascu larization of the graft through the cornea (5) vascu larization of the graft through riss adhesions (6) a larization of the graft through riss adhesions (6) (7) the formation of verocities space of the graft (best causing irregular effection and diffraction and (8) a large uncrease in the thickness of the graft (1) such a superior of the contraction of the contraction of verocities of the graft (1) such as the contraction of the contraction of the graft (1) such as the contraction of the contraction of the contraction of the graft (1) such as the contraction of the contract

Slocum G Employment of a Conjunctival Bridge and Suture in Cataract Extraction Arch Ophia 1933 329

Slocum used a conjunctual bridge for the first time mentacting a catasact form an unnily patient. It proved so attifactory that thereafter he such a bridge routinely. Later he modified the technique so that the bridge was extended upward with the existors for several multimeters the top of the bridge was partly cut across on one side from below upward to facilitate undectomy and extrac-

tion and dissection of the flap was followed by the introduction of a suture to be tied when the operation was completed

Stati ties of operations performed under various conditions showed that the bridge improved the results and that the best results were obtained with the bridge and a suture Sauvel A Durk M D

Samuels B Sympathet c Scleritis Arch Ophth

The uvea is the primary site of sympathetic oph thalma but the specific infiltration involves con tipeous structures. In a microscopic examination of musty four globes to determine the exact manner in the disc section of determine the exact manner in the contract of the exact manner in the section of the section of the section of the macula was most frequently and most severely involved. In volvement of the select depended on infiltration of the chorold. In twenty severe globes the select a was free from inflammation. In the saxty seven others the selectal nucleonistic of the selection on the wall of emission diffuse internal selection in the saxty seven others considered interstitutal selection in the selection of the selection of the selection in the selection of the selectio

As there is a possibility of specific infiltration out side the globe a long piece of optic nerve with adjoining tissue should be removed at operation and in cases in 1 hich sympathetic ophthalmia is suggested it is advisable to apply radium therapy to the orbital contents remaining after enucleation.

GEORGE R MCAULIFF M D

#### EAR

Rodg r T R The Treatment of Chronic Suppurati e Otitis J L y got & Otol 1933 1 n 525

Of the different methods of non operative treat ment of chronic suppurative otiti Rodger prefers the dry treatment after a thorough preliminary cleansing The ear is first syringed to clean the mea tus. The middle ear is then thoroughly irrigated a Hartmann cannula being insinuated into the perfora tion or against it. When the return flow has become clear the ear is mopped quite dry Then while the surgeon holds a final mon in readiness to catch the moist bubbles, the nations is made to inflate the ear by Valsalva's method until the escaping air has a dry When the ear has been thus thoroughly cleansed and dried the inner part of the meatus is filled with fine boracic por der blown in with an in sufflator. In some cases the removal of small granu lations or polypi may be necessary first. In these cases the prognosi is not so good. A search must be made also for nasal and nasopharyngeal conditions which m ght mulitate against a successful result

In quite a fair proportion of cases the ear remains dry after the first treatment. It appears that in such cases insp ssated material lodged behind the lip of the perforation has been acting as a foreign body

The patient is instructed to return for a repetition of the treatment whenever the powder becomes most but it is use to give him an appointment for to o weeks later in any case as moisture may be pres ent; thout his being aware of it A large perforation may not heal but if the car remains dry for a consid erable period it may be assumed that the suppura tion is confined to the middle ear and any recurrence may be treated confidently in the same way

The patients must be regularly re examined by the surgeon himself If satisfactory progress is not ap parent with n a reasonable time operation should be advı ed JAMES C BRASWELL NI D

Gray A A Ty o Cases of Acusticus Tumor With Clinical and Patholog cal Reports Po R)

The author reports two cases of acusticus tumor and discusses a third which was reported previously In all three the tumors occurred in the course of multiple neurofibromatosis (von Recklingbausen's disease) and were bilateral The ganglion sp rale was affected and it was clear that this is a fairly early change because in Case 2 the tumor was very ears) change because in case 2 and various was very small and had hardly begun to produce clinical evi dence of a disturbance of hearing In spite of very advanced degenerative changes in the ganglion spi rale the organ of Conti was apparently quite normal in two of the cases and was affected only in the low est whorl in the third

Perhaps the most remarkable feature was the oc currence of areas of typical otosclerotic bone. In two of the cases these areas were found in the situa tion in which they are almost always found in ordi nary cases of closelerosis that is in front of the oval window In the third case the otosclerotic bone was present in the canal of the cochlea in its apical whorl

There was no deafness in any of the cases until after the tumors had manifested their presence by disturbances of equilibration or delayed vestibular reactions Therefore the otosclerosis must have de veloped after the tumors on the acoustic nerves. One of the patients has only fourteen years old Otosclerosis may occur at that age but is very uncom mon so early in hie

While it s within the bounds of possibility that there was no relationship between the occurrence of the acusticus tumors and the otosclerotic bone—in other nord, that all three patients had acusticus tumors and happened al o by pure concidence tl develop otosclerosis the author believes that this is JAMES C BRIS ELL H D

## MOUTH

Ilyndman O R Carcinoma of the Lip A Cl ni copatholog cal Analysis of S enty Seven Cases and a Sugg stion for a Rat onal I lan of Treat ment A A S & 1933 xnu 2

Epidermoid carcinomata of the hp constitute from 2 to 3 per cent of all cancers and occur twelve

times as frequently on the lower up as on the upper ing As the regional glands of the neck present an up its the regional games of the new present an almost impassable barner to further metastass death is generally due to the local and regional de velopment of the disease rather than distant in

The author has divided his analysis of cases into two parts. In the first part the clinical picture is correlated with the pathological findings in the glands and the subsequent course whereas in the second part the histological features of the primary lesion are analyzed in an attempt to correlate them

Of the tumors discussed in Part 1 80 per cent were found to be essentially beingn neoplasms which were slow to metastasize The prognosis after con servative surgical intervention ranged from good to excellent In a relatively small group of the ca es the lessons were clinically highly malignant. Metatases developed early and regardless of radical surgical intervention plus intensive irradiation the incidence of cure did not exceed 50 per cent. These more malignant tumors were non legatinizing and presented the characteristics of buccal carcinomata elsewhere whereas the relatively benign keratinizing tumors had the characteri ties of epidermoid car cinomata of the skin in general

In the second part of the article the lesions are classified into three groups (1) very beaugn appear ing lesions including warts t hich fall in Broders Grade I (2) epidermoid carcinomata which show an advanced degree of differentiation with more Legation and pearl formation than in Group 1 and (3) lessons with obvious malignancy as evidenced by a lack of differentiation and an abundance of mitotic figures which correspond to Broders

According to this classification thirty six of the primary lesions were classed histologically as rela tricly benign Only two of them had formed metas tases at the time radical operation was performed Of the ten les ons which were classed histologically as highly malignant six had formed metastases and

The choice of the method of treatment must be based on a careful clinical examination and a microscopic study of the primary lesion If no gland are palpable and the les on falls in Group 1 or 2 removal of the primary lesion with an adequate margin all around is usually sufficient. If glands are palpable one or more of them should be removed and ex am ned micro copically If they show no metas tases it is necessary to remove only the primary but if a metastatic les on is found in an) gland a tho ough bilateral block di section of at ceast the submanillary and submental gland fol lowed by an adequate course of uradiation is indi cated If the primary lesson falls in Group 2 a complete block di ection followed by irradiation is indi cated regardless of the clinical findings Irradiation is not advisable unless there is surgical intervention. HILLIAN G HAMM M D

#### NECE

Torelli G Observations in 100 Cases of Cervical
Rib (Os er a 1011 sop a 00 c 1 di coste cervicali)
Polici kome tozz zl ez chr 102

The nuther reviews in detail too cases of cervical in ha terb bridly reviewing the theories of the genesis of these abnormalities. He has found cervical rule in about a per cent of his patients. In 60 per cent of the tautes in 60 per cent of the tautes the most perfect of the cases they were brivieral. Of the bilateral cases the more pronounced in was on the right side in all whereas of unlateral cases it was on the left wade in oper cent in Eighty per cent of the cases were those of females. That heredity may pla a rule is midicated by the not intrequent occurrence of cervical rules in several members of one family. Torchical cases were the continuous of the continuous continuous continuous cases were call rules in several members of one family. Torchical cases were continuous cases when the continuous cases were called the continuous cases of the cases were called the offering in detail and presents of cases when the cases were called the offering in detail and presents of cases were called the offering in detail and presents of cases were called the offering in detail and presents of cases were called the offering in the cases were called the ca

Of the 168 cervical ribs in the cases reviewed only 8 were complete. Thirty were fixed to the first rib and 130 were free. The clinical classification into cases without symptoms and cases with vascular pervous or objective symptoms is simple and sati factors. Symptoms are present in about to per cent. of cases. They are characteristically late in their development a fact probably explained by the dif ference in the prowth of the numerous structures which must be involved before symptoms occur. In as of 60 cases there was a tumefaction in the sunra clavicular space, and in 26 a palpable tumor. Not infrequently, the oncet of symptoms was preceded by frauma. Nervous symptoms are most common and may be referred to sensibility motility trophic re pains are referred to parts of the body other than the arm The vascular symptoms may be arterial or venous. The presence of a pulsus differens and a difference in the blood pressure are common, but not constant. In a number of the cases reviewed the differential diagnosi from apical tuberculosi was important. In a few of them the two conditions were associated. In 28 per cent of the cases there was an associated scoling of the certifodorsal spine 1 Lorge Rose M.D.

## SURGERY OF THE NERVOUS SYSTEM

## BRAIN AND ITS COVERINGS CRANIAL

Hyland H. H. Ti tombosis of Intracranial Arteries A Report of Three Ca es Involving Respectively the Anterior Cerebral Basilar and Internal Carotid Arteries & ch. \(\chi\_0\) \(

The author reports three cases of cerebral throm boss illustrating the syndromes associated with softening in the distribution of the anterior cerebral basalar and internal carotic arteries. Because of the infrequency of primary thrombosis of cerebral extense other than the middle cerebral artery: the a social of chinical syndromes are simewhat in familiar and may sometimes pass unrecognized.

The brst case was of interest because of the symptoms and chinical findings of bulateral throm bosis of the anterior cerebral arteries and the post morrem findings of an anomalous distribution of these arteries. The arteries joined to form one long stem which druded into two stems on the dorsum of the corpus callosum. A thrombus was present in the common frum.

According () the author the principal symptoms are ing from occlusion of one anterior cerebral artery are (1) paraly is of the opposite lower limb due to a charma of the cortical leg area (2) ideomotor



Drawing I th circle of Willis (Case 1) showing anomal us distribution of arteries-

aprain affecting the left arm whether the limb is positisted for contribateral as a result of softening of the anterior part of the corpus callooms and (i) psychomotor disturbance in the upper limb of the same side as the paraly seed leg. It hand sorrhe the mental reaction of euphors with freedom feed inhibitions which occurred in his case to the bake will disturbance than to a generalized circuit ty disturbance in the control of the con

The chincal p cture in the case of thrombous of the babilit string was considered by the author to be characteristic of a lesson of the brain stem. The manifestations were those of blatteral pyramidal disease affecting the limbs cranial neric palses which at times were on this side opposite the para lyzed himbs mysta, muss pupiliary changes glycosurna and a termination sings uting medilisty

The third case reported presented the syndrous known as carroid hemplega which is charactered by bindness of the eye on the side of the lesson and hempl gas on the opposite side. Because of the rartis of primary thrombosis of the internal caroud Hyland was simple to account for its presence in this case. The fact that the patient was convidenced from severe presumons when the crebril symptom deel and factor in the decident was convidenced to the convidence of the convicence of the convicence of the convidence of the convidence of the convicence o

The authors review a series of twenty three his-tologically verified axes of mediplohistonia from the surgical serice of the Neurological Institute of New York. The object of thesi study was to bette mine whether conservant e surgical procedures character. Edy wide decompression followed by the therapy of more rad cal operations for surgical great extension of the time of piles. Yes therapy great be bet, results from the standpoint of operative mortal transfer and the standpoint of operative mortal transfer and the standpoint of operative mortal transfer and transfer and the standpoint of operative mortal transfer and tra

They found that the average pennod of survival of all paties, who recove of from one or more operations was e enteen and three trails months in the ten cases in which only a conservative program was done it was seventeen and five tenths months, whereas in the cases in which a more radical procedure was done primarily or after a conservative procedure it was given and fine tenths months.

The operative mortality of all operations was 20 5 per cent and the total case mortality 30 4 per cent. Twelve patients were operated upon conservatively

twenty three times with a reported operative mor tality of 13 per cent and a case mortality of 15 8 per cent (This latter figure appears to be an error-ABSTRACTOR ) Eleven patients were operated upon by the radical procedure 11 times with an operative

and a case mortality of 36 3 per cent

The authors regard the relatively low operative mortality after conservative surgical procedures as a factor of importance in favor of conservative sur gery for cerebellar medulloblastomata. They believe that the immediate benefit from the radical opera tion is apparently produced by the decompression rather than by the incomplete removal of the tumor and that the final result as regards length of survival is a consequence of the roentgen therapy of these radiosensitive growth

They conclude that in the present status of the surriscal treatment of cerebellar medulloblastomata conservative surgery has given better immediate results than attempts at radical externation and from the standpoint of length of survival it has given results at least as good as those obtained by

the radical method HAIR HAVEN M D

Heymann E. Brain Suture (Uebe, die Geb ronaht). Mel Al 1 333 402

In modern traumatic surgery primary suture of the wound is attempted whenever possible. An excention is believed to be necessary only in wounds of the brain. The author states that this theory is erroneous as the brain may b sutured if it is brought into a condition which permits suturing

When the brain is to be sutured it must be exposed widely enough for the wound to be visible in all di rection The soft parts and the cranial coverings must be opened widely and the dura split extensively in order to permit complete removal of blood clots and macerated to sues. The brain should be dehy

drated by intravenous injections of concentrated glucose solution. The us of the electric knife is rec ommended to prevent venous bemorrhaces. Arte rial hemorrhages necessitate ligation. After wound toilet described it is usually possible to sew the wound edges together with fine catgut sutures. Cut ting through of some of the sutures is not of great importance After this suturing careful union of the soft brain coverings is done. This is possible only when the primary suture has been successful. It is of great importance because the cicatrization of the brain wound occurs entirely from the mesench mal The possibility of brain prolanse is best avoided when the suture of the pia arachnoid holds If this suture is not made neither an exact dural su ture nor the best plastic will prevent prolance and the dreaded cerebrosomal fluid fistula

The author recommends wound suture of the brain in operations for trainmatic endensy and opera tions for tumors, especially large arachnoidal endo thehomata. The wound hed cannot always he closed by suture after the removal of huge tumors, and when the ventricles must be opened in the course of opera tion brain suture will not prevent superficial collection of cerebrospinal fluid or the formation of cere brospinal fluid tistule Suture of the ventricular wall does not lead to the same ranid healing by scar for mation as suture of other tissues. The is explained by the scarcity of mesenchymal tissue in the deener medullary layer Therefore the scar formation must proceed from the surface inward

The author has found that brain suture yields the best result in wounds of the cerebellum. Resection of one half of the cerebellum can be done in such a av that the outer surface covered by the arachnoid is pre erved. A meningeal uture can then be carried out very easily Cerebrospinal fluid fistulæ develop very rarely W MANDEL (Z)

## SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Wolp rs C The Ble ding Breast (D blutende Namma) 1 ch f kl Ch 013 ckxx 427

Heretofore the bleeding breast has been studied only from the standpoint of the possible development of carcinoma its clinical aspects or its basic horeal basis. The author has studied bleeding from the breast as a phenomenon in itself. He studied the bloody scretchion occurring in the breast in the absence of pregnancy and lactation. The bloody appearance is due to destruction of the red blood corpuscles. Wolpers distinguishes best een a sport in the studies of the

In women the diseases of the breast of practical importance which may cause bleeding are (1) mas topaths (2) exito-epithelionia and (3) carenomia The author reports two case due to the first and second cond trons and ei hit cases due to the third in addition he reports et ht cases in which there were no po itive finding on palpation and only a clinical examination was made.

In the male bleeding from the breast is due to cysto epitheloma and carcinoma. The author adds two cases to fourteen collected from the literatu e Up to the present time no definite relationships to tween the blood the bleeding time and the findings of palpation have been established. With regards to ca e of bleed ng breast without palpatory findings the author rejects the hitherto president were the author rejects the hitherto president were cancerous and the breast should be radically re moved. When palpation is negative he recommends expectant care. Max Breug. (2)

Krauss F A Contribut on on th Nature and Etiology of L pogramulomatos's Mammae /Bet a We d A til ge de Lip gran l mat si m mm ) Ze t dbl f Ck 935 p 7

The author reports a case of blateral lipograms indiatos of the bress. The part at was a wan fifty one vears old who had suffered a mid attack of tetanus mus years previously following uperfici a brass ons. At that time she rece ed up year to say of an it teams serum in the upper inner quadrant of each breast. Soon a walnut sized tumor developed in the upper outer quadrant of the right breast and a somewhat larger tumor in the upper inner quadrant of the left be size. Both tumors were removed and in the left side b east cysts with a fatty old content vereopenet.

Microscopic estimation of the times on the right side showed fatty itsue inflictated by grands, too tissue small foct of necrous with gata tells here and there an area of calcification with fibrous en capsulation and scattered histocytes some of which formed ranthoma cells. The changes in the timos on the left side were on the whole similar to those us the timos on the right side. The liming of the wall do not the right side. The liming of the wall one of the larger of six was formed by large light refute to the side of the larger of the six and formed by the large of the larger of the larger of the six and the side of the larger of the l

#### TRACHEA, LUNGS AND PLEURA

Nehil L W and Alexander J An Estimate of the Value of Phren c Nerv Interruption for Phth's s Based on 654 Cases J Thor CCS 1 1033 II 540

The authors report the results of 6.54 phress operations for phthiss. The present status of 61 (93 5 per cent) of the patients is known Of 30 3 per cent of the patients is known Of 30 3 patients subjected to a phress operation alone 21 have been traced. In 33 per cent of the latter the condition is apparently cured or arrested in 35 per cent it is apparently a rested quescent or improved in a per cent it is stationary and in 5 per cent it is attoorary and in 5 per cent is a condition and it is apparently a rested question of the patients in worse the condition of the patients in whom the condition has been cured or arrested executed treatment in sanatoms for from eight to tharty say months before the operation.

Of 215 cases with a pulmonary cavit in which the attempt was made to close the cavit by phrecia paraly us alone a successful result was obtained in 35 per cent. Of 150 cavities which remained on after two or more months tr. 1 of pneumothorat 50 per cent in the close of by sub-equent phrene paraly us. Therefore 46 per cent of 331 cavities were closed by the ence parally.

Of 81 traced patients without ca tation in whom phrenic parallysis was induced following an unsatisfactory pneumotho ax the condition was ar rested in 42 per cent and improved in 50 per cent Seven per cent of the patients are dead

In the cases of 66 patients phreme paralysis failed to cause satisfactory improvement and pare mothorar thoracoplasty or some other suppression tary operation was done sub eq cml). Of the patients the condition was arrested in 11 per cent improved in 5,6 per cent remained stationary in 3 per cent and became worse in 7-per cent. Twel when the condition was arrested in 2-per cent of the 66 patients the saduction of per cent may be a subject to the first parallel subject to the condition of the co

In the entire series of 624 patients, pherine paralys we the authors expectations its effects ranging from symptomatic relief to complete are to the tubercolos is in no case was the phrenic paralys directly or indirectly re-pon tible for death. The best results were obtained in case of limited to one shich her relatively recent and contained frious tissue young enough to be capable of considerable contraction. The results were poorist in ce so of extensive hibroite lessons 1 till higgs till are so of extensive hibroite lessons 1 till higgs till discontinuous contraction.

## Weinberg J A lods ed Oil in Bronch ectas s In cluding a Study of Two Cases Following Lo bectomy 1 0 5 g 933 \ 545

Frammation of lobes of lungs removed by the author in two cases of bronchiectasis revealed the presence of iodized oil almost three months after its introduction. The retention of the oil vas not con fined to the phagocytic cells it could be identified in the majority of the cellular elements present.

Autopsy 7 erformed on gunee, pigs and rabbits and the pigs of a relectant and pneumonitis depending apparently on the amount of oil used. The retention of the todized oil suggested to the author its thera peutic advantage in cases in which prolonged contact, with the itsuess is deserted.

FRANKLIN E WALTON M D

#### RESORRAGIES AND MEDIASTINUM

Gott R Jr Spontaneous Rupture of the Esoph agus with a Report of Four (ases 1 J W Sc 1933 clv v 400

Cott reports four cases of rupture of the croopha gus all of which were fatal and in all of which studies yere made before death and at autonsy

Case 1 as that of a woman forty seven years of age ho after a heavy meal became naustated and had a volent attack of vomiting During the vomiting beep remenced a sudden extructating pain in the chest and coughed up a small amount of blood. Subtraction was employed and a small amount of blood. Subtraction was employed and were followed by bronchopeneumona and pieur sy with fluid in the left chest. Thoracenters a remo ed fluid from the potential cut is which had a very offensive door and done to promote adequate the properties of the properties of

Case a was that of a soman fifty to 9 cars of age to ho was brought to the hop trail with a hastory of head cold att chalfs for three laws. Death occurred almost unmediately after her admission buffly 3 sho ed a meningococc emeningits with a buffly 3 sho ed a meningococc emeningits with a made a tear in the sophagus are to some the buffly and a tear in the sophagus are to some fine the tended upward from the dust hragin. The text had occurred shortly before death

Case 3 was that of a sixteen year old girl with meningococcic meningitis complicated by broncho pneumonia. Autopy, revealed a tear of 1 cm long in the ceophagus just above the diaphragmi which had occurred shortly before death

Case 4 was that of a man at 1, years of age who developed bronchopneumona after the resection of a duodenal ulcer with gastro enters tomy. At autof sy two perforating ulcers were found in the lot or end of the c sophapus. I Divil Williams W.D.

Officzeld II. The De elopment of Secondary, O rian Carcinoma Demonstrated in a Case of Primary Œ ophogeal Carc noma (D) Int te hoin de chond ren heu te & keb en chge sen nein mp mae e Si seo hrenk el sj. Iteh fl. & M. 131 k 13 4

In a case of chincally proved carcinoma of the exophagus developin in a woman just past the menonause tumors proved to be carcinomata on histological examination were found in both ovaries The relation him between such tumors developing in different locations 1 discussed It is assumed that bilateral ovarian carcinomata are secondary to a primary carcinoma el e vhere in 77 per cent of cases and are primary in the ovary in only 36 6 per cent The frequency of involvement of both ovaries is attributed to the fact that after penetration of the sero a by a focus in the abdominal cavity the space of Dourlas acts as a catch basin for cellular Structures in the abdominal cavity According to Ribbert the cells fall by gravity into the deepest part of the cavity and therefore settle most fre quently near the ovaries. In addition, there is the possibility of transportation of such loosened cells through the lymphatics in the abdominal cavity From the space of Douglas numerous lymphatics lead to the ovaries. In cases of carcinoma situated in the thoracic cavity it appears that the cell are usually transported to the abdominal cavity and organs by the lymph route even in a direction opposite to that of the natural flos. The transforta tion is effected through the lymphatics of the dia phragm either directly into the abdominal cavity or av of the retroperstoneal glan I whence the path can be traced backward into the lesser pelvis and to the bilim of the over. In the case of ceso phageal carcinoma reported by the author all of the lymphatics in the excised specimen ere found filled with carcinoma cells

Indocrate influences are assumed to be responsible for the development and unusual size of the e ovariant tumors as the administration of ovarian juices increases the growth of the tumors and favors their pread into other places. Recently kermauner has suggested that the large size of the tumors may be due to the wave like increase in the blool flow in the ovaries, which render conditions more favorable for the lodgment and growth of the misplaced cell

The author comes to the conclusion that all sec ondary ovarian carcinomata are not daughter tumor in the true sense but extensions of a primary tumor to the over, occurring by retrograde transportation by way of the 1s mphatics. This theory is supported by the monomorphic character of the bissue structure which is in contrast to the polymorphism of true daughter tumors transported by the blood stream.

Choically the secondary tumors in the ovaries are usually manifested first while the primary tumor in the gastro-intestinal tract or thorax remains latent

The author advocates active therapy He recommends removal of both ovarian tumors together with the uterus at the time of the operation for the removal of the primary tumor or at a second operation.

To date seventeen cases of complete recovery are known A Salomon (L)

Caussade G Decourt J., and Duroisel A. A Case of Mediastinal Dermoid Cyst of the Pulmonary Type with Hæmeptysis. Terminati n by Meta static Septic Encephalitis (Kysted monde du médi stin form prilmonaire & hémoptisae. Te munason par encéphalite septiq. e métastatiq. e). A h. mid. chr. d l. laphor r. p. 93, 21, 246.

The case reported was that of a man inenty fuel pears of age. The authors compare the tumor with the description of mediastinal dermod given by Staffers and Segnet. Tentomicous tumors of this type may be in the anterosupence or antenor part of the mediastima. They are usually found on the right side. They gierse to localized thoracce pain. After the painful phase hamoptys us begins. The hamoptys is difficult to distinguish from that of tuberculous although the blood is more apt to be dark and the Koch bacillus is absent. The rentigenogram shows a sag entire shadow sur rounded by pertapsular inflammation.

The only pathognomonic sign is the expectoration of hairs and masses of sebaceous tissue. The latter may be identified by its reaction to osmic acid.

Cure may result from calcification of the mass or may be brought about by surgical removal it the ma six afficiently larg and accessible. Death may result from pulmonary supportation cachesia can certation or septic embolism. In the case reported by the authors the embolism longed in the brain it sue giving it et a metastati septic encephalitis.

\*\*Larger M. Pours M. D.

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#### MISCELLANEOUS

Barsony T Histus Hernize (Ueber die Hiat Hrn n) Achf ie danu geh 1933 in 349

Hatus herms can be diagnosed only rocal genolog cally and the smaller ones only with the patient in the reclaming po ition. Even five years ago Bisson did not completely agree with Acker land. He considered confusion of these herms with gastri directical and epiphrenic exophageal divert culta to be impossible. However the portion of the esoophagus which is constructed by a contraction above the diaphragm may be easily mistaken for a hattu hermis (pseudoherma). In cases in which the

construted portion appears wider than the remain der of ersonhagus the differentiation is rendered more difficult Moreover the folds which under certain curcumstances are visible in the hiatus do not indicate a hiatus hernia definitely because they may occur also in conjunction with dilatation of the cesophagus Therefore Barsons thinks that these frequent plum sized resophageal constrictions his pseudoheroux have been regarded erroneously as hiatus hernize by later observers. Chaoul has con firmed his findings Barsons considers a history hernia to be present when with the patient in the reclining position the asophagus empty and the stomach full an epiphrenal shadow rounded off on too and communicating widely with the stomach appears above the hiatus on the repeated applicat on of abdominal pressure

In contradi function to Sauerbruch Chaoul and Adam he beheves that twe hatus herms are not very frequent. However a negative diagnoss is of no practical sgmicance. In none of Barsony's cases of small hatus herma did incarceration occur

In de cussing the pathogeness of histus brains. Barson emphasizes that such herms are not on gential as they occur only in old persons. He ascribes them to loosening of the periosophagei tissues in the histus and increased intra abdominal press are (Pietburch). However he has not yet been able to prove experimentally, to old attribute the contraction of the period of the period

Histus hernie should be borne in mind in the examination of all patients with complaints referred

examination of all patients with to the œsophagu and stomach

When other conditions are also present these most be treated first. As even large hattun therax may exist without swiptoms there should be no hurry to operate. It is still a question whether a ligarationily or a transitorance operation should be don. Many surg one believe that a congenitally shortened esophagus is a contra indication to operation. This is not necessary true as Harington of the Mayo Clinic has shown that in cases of shortened esophagus the cardia can be brought up under the disphragm even when the disphragm even the even that the even the

Wagner A. H raia Through the Esophageal Histus (L b r H rais hist's cesoph gr). H sp Tel. 933 p 257

Herms through the escophageal hattu has been found to be more common than na. formerly supposed. Their formation is favored by all conditions easing an increase of the intra abdominal preserves the as obstipation pregnancy prostate hyer trophy long continued boddly erect on traumachronic cough assertes and loss of last and musching the common predisposing causes are sear raing of the escophagus which pulls the stomach up into the thorax and congenital delects. Among the

most common symptoms is pain. This is usually localized in the region of the upper epicastrum and occurs before during or after meals or periodically it may be provided or releved by changes of position. Dysphagia is a less common but important symptom. Other symptoms are belching prysmus vomiting hausea hamatemesis occult hamor rhages and meltana.

In the differential diagnosis it is necessary to rule out emphrenic and subphrenic resophageal diver ticula a cardiac antrum of the ersophagus cardio spasm other diaphragmatic hernix relaxation of the diaphragm in the region of the resophageal hiatus and diverticulum of the fundus of the stomach The nationt should be examined in the standing and re chining positions Fluoroscopy after an opaque meal is recommended When the esophagus is freely patent and roentgen examination with the patient in the reclining position shows above the level of the diaphragm para osophageal shadows which are con tinuous with the stomach, the presence of a histus hernia may be assumed with considerable certainty The diagnosis is aided by enlarging the epidiaphrag matic shadows by increasing the intra abdominal pressure. In the standing position, diverticula of the osophagus are filled from the osophageal lumen and not from the stomach and may show a retention after the stomach has been emptied. In contrast hiatus herniæ empty simultaneously 1 ith the stom ach Confusion of the condition with a cardiac antrum of the esophagus cardiospasm or cancer of the resonhagus is easily avoided

The author reports it cases—4 those of men and 7 those of women between forts and seventy years of age—which were found in 3 000 gastine examina thous. In all of these cases a part exceptinged lhaitus bernia was demonstrated by \(^1\) ray examination. The chincal records shot that a diagnosis could not have been made from the clinical symptoms alone. The necessity for fluoroscopic examination for a correct diagnosis is therefore apparent. In addition to the fluoroscopic examination a complete gastine ex

amination should be made

Halus herme occur most frequently in old persons with weak musculature and loss of farty tissues As reports of end results from operature treatment are still lacking no definite conclusions may be drawn with regard to the best therapy. Dietetic treatment may be beneficial Hagen (Z)

Neumann R. Histus Insufficienci s and So Galled Histus Herzine Anatomical In estifications and Vicchanical Tests in the Region of the Espohga al Il attus of the Da pharm of the Espohga al Il attus of the Da pharm of the South of the Company of th

The gastrocardial syndrome of Roemheld and the epiphrenal syndrome of von Bergmann are supposed to be related to hiatus hernize or hiatus insufficien

cies the third type of herms in the classification proposed by Ackerland in which the unshortened crosphagus lies in the pressure sac. Sauerbruch Chaoarel and Adam consider the shadows to indicate epiphrenal dilatations of the osophagus similar to the obsence ampulsa.

One hundred cases were studied anatomically by a specially planned dissection technique. The find ings showed that the cardiac incisura is located where the forms of the stomach turns to the left and upward. At this point there is a proove, the cardiac sulcus or Arnold's groove The upper sulcus the sulcus hiaticus is sharper than the cardiac sulcus Between the two is the cardiac antrum the average length of v hich is 3 3 cm By the term cardia the anatomist means the mucous membrane border be tween the squamous epithelium of the esophagus and the glandular epithchum of the stomach This may be distributed over the entire cardiac antrum but most often hes next to Arnold a groove Trans verse borders are not determinable and longitudinal folds pass over into the lesser curvature

The cesophageal hiatus of the diaphragm shows very little uniformity in the arrangement of the muscular fibers. It may even be tendinous. The inght muscle of the cruis is usually the more power ful. The cleft passe downward from left to right and is of varying breadth being broader in pylane than in authenic persons. The entire pericesophageal usual has possible and the second to the control of the control o

groove to the gastric wall

Caudad to the entrance of the hiatus more or less marked dilatations are found. These are esophageal bulbs some of which are isolated and others of which resemble a string of pearls on the resophagus. They differ particularly from the bulbi antricardiaci which are below the sulcus hiaticus vary in size from that of a walnut to that of a duck egg and are not always present. They differ also from the bulb positive and the bulb-negative groups which can be recognized immediately or when slight pressure is exerted on the abdomen or stomach. It is evident without mechanical proof that these bulbs include a subgroup over the entrance of the hiatus. In the second type the bulbs extend toward the hernia Eighty seven and five tenths per cent of the cases are bulb negative and only 12 5 per cent are bulb positive In the former the sulcus hiaticus lies at the entrance of the hiatus and on pressure over the stomach the resophagus extends only slightly up ward The upward movement of the hiatic sulcus and the antrum varies between 2 15 and 4 cm. Ar. nold's groove has never been demonstrated above the entrance to the hiatus Previous to displace ment the cardia never lies above the entrance to the hiatus but after displacement it may extend as far as 23 mm above the entrance in 28 5 per cent of the cases and is found in the hiatus in 6 7 per cent and below the hiatus in 65 per cent Even after the

to the overy occurring by retrograde transportation by way of the lymphatics. This theory is supported by the monomorphic character of the tissue structure which is in contrast to the polymorphism of true daughter tumors transported by the blood stream

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Type with Hæmoptys s Termination by Meta static Septic Encephalitis (Kyste d mode du médiastin forme pulm naire à hémoptys es Terminaison par encéph hit septique métastatique) Arch mét «kr de phy r resp 1933 m 246

The case reported was that of a man twenty, fix years of age. The authors compare the tumor with the description of mediastinal derimoid given by Stafferi and Sergert. Teratomatous timors of this type may be in the anterosuperior or anterior materior part of the mediastimum. They are usually found on the right side. They give rise to localized or diffuse remutated or continuous unalization or diffuse remutated increase pain. After the painful phase harmophysis begins. The hemophysis is difficult to distinguish from that of tuberculous although the shood is more apt to be dark and the Koch bacillas is absent The rec. tgeongram shows a suggestive shadow sur rounded by necessal using militaria.

The only pathognomonic sign is the expectoration of hairs and mas es of sebaceous tissue. The latter may be identified by its reaction to osmic acid.

Cure may result from calcification of the mass or may be brought about by surgical removal if the mass is sufficiently large and accessable. Death may result from pulmonary suppuration cacheria can censation or septic embolism. In the case reported by the authors, the embolism longed in the brain tissue giving rise to a metastatic septic encephalitis.

#### MISCELLANEOUS

B rsony T Hiatus Hern as (L b r d Hi tus He men) 4 r k f 1 erd 11 gskr 1933 lin 349

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In contradistinction to Sauerbruth Chaoul and Adam he believes that true hintus hermiz are not very frequent. However a negative diagnoss; is of no practical significance. In one of Barsony a cases of small hattas hermiz did incarceration occur. In di cussing the pathogenesis of hintus hermiz Bar on) emphasizes that such hermiz are not con

and only emphasizes that stein artisle are not use geniral as they occur only in old persons. He ascribes them to loosening of the periosophaged tissues in the hattys and uncreased initia abdominal pressure (Pietibruch). However he has not yet been able to prove experimentally the role attributed to initia abdominal pressure by Saatua. Berg mann and Anothe attribute at important role to shruking processes in the upper exophagus and centraction of the longitudinal missides

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Hagner A Hernia Through the Esoph geal Histus (U b r Hernia hi t s orsophagi) Ho f Ind 1933 p 257

Hermae through the esophageal natus have been found to be more common than was formed supposed. Their format on a favored by all conditions causing an increase of the intra abdomnail pressure such as obstigation p eganacy prostatic hypertroph long continued bodyl extrino trauma chromic o gh assities and loss of fat and musches the common preduposing causes are searing of the esophagus which pulls the stomach up into the thorax and congenital defects. Among the

## SURGERY OF THE ABDOMEN

#### GASTRO INTESTINAL TRACT

Raiford T S Carcinold Tumors of the Gastro Intestinal Tract im J Ca r 933 XV n 803

tecording to the generally accepted theory car rinoid tumors have their origin in the so called chromafin cells of the gistro intestinal mucosa originally described by kullischitzky in 1897. These cell the origin and function of which are still a matter of peculation are most humerous in the reg on in proximity to the indeocreal whee

The typical carcinoil tumor is a small firm rounded mass which can be moved freely beneath the mucous membrane and presents a bright yellow surface on cut section The cells which suppo edly ari e from the mucosa and extend into the submucosa are arranged in groups and columns sur rounded by a dense stroma of connective tissue and hypertrot hied smooth muscle. At times the stroma suggests a capsule and in the larger lesions often con titutes the bulk of the tumor mass. The microscopic picture is one of small regular cells with a granular cytoplasm which have an affinity for silver and nuclei that are uniform and contain many chromatin particles Although carcinoids are gen erally regarded as benign tumors the author has collected from the literature 28 cases in hich metas tasis occurred to regional lymph glands and more di tant sites most commonly the liver

Nation 1 is material consists of 20 carcinods which were found among 161 neoplasms of the 25stroutest all tract examined in the pathological laboratories of the Johns Hophian Hop pital Seven teen were situated in the appendix 9 were in the small inte time of hich vere in the ideal manifer the same of the seven in the colon and 1 was in the stomach. Therefore 8, per cent vere situated in the region clote to the blooceast val e where the Kultschitzky cell are known to be most numerous.

The author states that a carcinoid of the stomach small intestine colon or rectum usually does not cau e symptom until it is ufficiently large to pro duce obstruction. In carcinoid of the appendix the s) riptoms are those of chron c appendicitis because of the comparate elvearly obliteration if the lumen Of the author's 20 cases meta taxes had occurred in 6 (20 per cent) Although the incidence of car cinoid tumors was highe t in the appendix only t of the 1 carcinoid in that area was classifed as malignant T o of the o tumors of the small bowel ig stric tumor and the tumor of the large bowel we e m I gnant Altho gh large the gastric tumor and the 2 turn is of the lirge bowel did not produce the typical con titutional manifestations usually associated with malignance te cacteria anximia anil sofweght

The author states that it impossible to differ entiate the malignant from the beingn tumors morphologically and that they are all to be considered potentially malignant Because of their extrices do not appear until late. The treatment should comsist of extirpation. Re-ection is preferable to local excision. The prognosis on the whole is good. It is grave only in cases with metastasis and even in such cases a good result may be obtained if the tumor is recognized and operation is jerformed before the metastases have become wide pread

The author's malignant cases are reported in detail. An extensive bibliography is appended.

ARTHUR'S W. TOUROFF M.D.

Hurst A F Tle Unity of Gastric Disorders
B t M J 933 u 89

An investigation of the anatomy and physiology of the stomach of healthy young adults of both exes showed that under perfectly normal conditions there considerable variation from the average. In the 80 per cent in which the variations occur within comparatively narrow limits the anatomy and physiology of the stomach are so perfectly adjusted to the exigencies of ordinary life that the subjects are likely to reach old age without ever suffering from any form of chronic gastric disorders. In the development of the hypothesis of the unity of gastric disorders Hurst emphasizes the familial predisposition in the remaining 20 per cent, one half of whom are born with a hypersthenic gastric constitution and most of the other half of whom are born 1th a hyposthenic gastric constitution. The hypersthenic group have a hyperchlorhy dria often associated with a short high rapidly emptying stomach whereas the hyposthenic group usually have a hypochlorhy dria and a long low slowly emptying stomach Both constitutions are compatible with perfect health but under unfavorable circumstances each predisposes to the development of a variety of dis ease which include gastric and duodenal ulcers carcinoma of the stomach and Addison's anarria These diseases become more and more frequent with increasing age. The younger the group of healthy individuals examined the fairer criterion they will be of the general population before it has become affected by d seases acquired secon lary to a consti tutional predisposition. A large group comprising health) persons of all ages such as that reported by lanzant Alvarez and their colleagues is a selected group from which many of the individuals with hypersthemic and hyposthenic gastric constitutions are excluded Such a group presents an inaccurate picture of the incidence of hyperchlorhydria and hypochlorhy dria

preatest upward di placement of the resonhagus the Territoneum never extends herond the entrance to the hiatus

In the bulb positive group a sub-roup shows a bulb of the cardiac antrum in which the history groose lies at varying distances above the entrance to the hiatus. In another subgroup perther a bulb formation nor an epiphrenal groove is seen on simple inspection but both of them appear when pressure a exerted over the abdominal cavity. Ar noid a groot e and therefore the entire cardiac antrum extends beyond the entrance to the highes in about one third of the cases. In or s per cent of the cases the cardia or epithelial border also extends up to 4 8 om beyond the entrance to the hiatus. Here again the peritoneum never extends beyond the entrance

t the hates The pulbs are always free from it The average age of persons affi cted with hulbs is

sixts and .e en tenths years

The hiatus groove is distinct even without crural compress on Arn ld groos e has no circular muscu lature External differentiation between the stomach and the resondarus 1 impossible as the border of the mucous membrane hes at varying beights Neverthe less the author believes that it hes most frequently

at Arnold's groove. His investigations show that the antrum belongs partly to the or ophagus and needs to the stomach. However this is true only of the mucous m inbrane From the standboart of function it may be assumed definitely that the sulcus harrow is an occlusive groove. With regard to occlus on at Arnold's groove opinions differ However accord. to \eumann it represents a distinct line of demarca tion-an occlusion. The ersophageal highes reme sents a valvular arrangement. What is the patholog ical explanation of the variation in the position of the sulcus histicus above the entrance to the hat s which occurs only in the bulb-positive group In 83 o per cent of these cases there was pulmonary emphysema and in 58 t per cent the piknic habitus in which the hiatu is wider. The increased negative pressure is responsible for the bulb forms t on as suction is exerted toward the thoracic cavity Another factor is the disappearance of elastic and fatts tis ue due to spe. The bulb format one of the cardiac antrum represent the so-called insufficiencies of the hiatus or hiatus bernix. They are by no means hernige as peritoneum is not present. It is of interest that clin cal symptoms were never present in

FRA 2 (Z) the author's cases



The presence of mucus in the ordinary fractional test meal indicates an associated gastritis. How ever mucus is rarely present in excess except in hyposthenic individuals with either hypochlorhydria or achlorhydria. This is due to the fact that the hypersthenic stomach is able to secrete only a very little mucus as compared with the hyposthenic stom ach In the 10 per cent of hypersthenic patients with constitutional hyperchlorhy dria there is ample protection against mechanical and chemical irritants if these are taken when the stomach is full but as hyperchlorhydria is usually associated with rapid gastric emptying the stomach is empty for a much longer proportion of the day or moht than in the average individual and there is much more oppor tunity for mucosal damage by alcohol tobacco or drugs Accordingly the 10 per cent of persons with constitutional hypochlorhydria due to inadequate gastrie function are likely to develop gastritis which sooner or later leads to achlothy dria. This occurs in spite of the attempt made by the stomach to protect itself by the secretion of mucus. It is a remarkable fact that the type of stomach which because of its deficiency in gastric juice most often requires a protective coating of mucus is most capable of produc

The functional efficiency of an organ is always re duced when the organ is inflamed. Therefore in chronic gastritis secretion is reduced to a degree which varies with the severity and duration of the inflammation The amount of acid present in the stomach in a test meal depends upon the constitutional type of the stomach. Thus the hyperchlor hydria of an individual with a hypersthenic gastric constitution becomes less extreme or may be replaced by a normal curve of acid of an exceptional cases of hypochlorhydria It is a gnificant that when medical treatment has resulted in the healing of an ulcer and the disappearance of gastritis the acidity is almost always higher than it was before. The hypochlor hydria of individuals with hyposthenic constitutions is almost always replaced eventually by complete achlorhydria as the result of associated gastritis. In most cases this can be o ercome by removing the exciting cause. In 82 per cent of thirty four cases of achlorhydna treatment of the gastritis led to the return of free acid. The reduction of acid in these cases is due to depression of the gastric secretion by the inflammation and the excessive mucus secreted

in inflammation and the excessive mutus secretarians in inflammation as associated with the control of the cont

that the absence of mucus is due to its digestion by gastric juice but mucus differs from other protess in the extreme slowness with which it undergoes peptic digestion

perchaped as so found in about to per cent of cases of Addeson a narma in these cases the about the cases of hydrochloric section for the gastine secretion associated with the control of the cases of the control of the cases and the control of the cases of the control of the

The facts cited show that most organe dustry, ances of the stomach are secondary to exiting causes which are so common that very few person exchold age without coming under the influence of one or more of them at some time in the river for an early four fifths of the population have stomachs which are endowed with sufficient resistance to exape damage and it is only the remaining to precent who are likely sooner or later to decide par organic disease—

SAMPLET J FORENS M.D.

#### Kallio K E Intestinal Knot Formations (De Knotenbildu g des Darmes) 4ct k g Scord 1932 l S pp xx

This article discusses the form of ileus in which true knot is formed in loops of intestine. A fixed part of the intestine generally acts as the passive part of the knot and during the active movement of digestion at might a loop of free intestine rolls around it and becomes tied. A single loop of intestine may sometimes form a sailor s knot.

To the \$4 cases reported in the world literature the author adds, 7 unpublished cases which he found recorded in the hospitals of Finland. One hundred and twenty two (7.8 Per cent) of the total number of 161 cases were seen in Finland. All of the subject were males who did hard manual labor and in edic cases food. The author believes that a largest with the control of the subject with the subjec

In the typical case of intestinal knot formation the patient is seazed with violent pain in the might and comes to the hospital within twenty four box. The marked detenoration of the general conduct is out of proportion to the short duration of ultimess. The abdomen is distincted but official the distinction is not very great. The standard with the standard of the

Among the ca es reviewed the knot was in the sigmoid in 134 in the ileocæcal portion of the ilestine in 2 and in the small intestine in 25 In

cavity. That primary closure is indicated in all care of diffuse peritority including the most severe is evidenced by the statistics of the Valeno material immediate primary suture was done in 67 per cent of all cases and primary closure plus local drainage of the appendix bed in an additional 22 per cent. In only 4 per cent was an attempt made to drain the secretal abdominal cavity.

The mortality statistics of this series compare anorally with those from other institutions. The incidence of immediate and late wound infection and of postoperative herma was very low and the period of hospitalization very short in comparison with the other series. The only complication seem more frequently in non-drained cases was secondary abscess in the cull le sac of Douglas but this is of no great importance. One of the greatest advantages of pin mary suture is the infrequency of postoperative ileus. The experiences of the Malmo Clinic with pinary suture over a period of twenty two years lent strong support to treatment without drainage for all cases of non circumscribed peritointy.

In reviewing other therapeutic measures in the treatment of this type of peritonitis the author state that mopping and irrigation of the peritoneal cavity are equally advantageous. However in the use of either great care must be taken to avoid in jury to the peritonium. The use of antisentic substances or fluids to Trevent adhesions is objection able. The usual administration of fluids chlorides and stimulants is advocated. Lymphatocostomy is condemned I of valent annerobic sera are valuable prophylactic and therapeutic adjuncts and should be employe I whenever spreading peritonitis exists or is threatened Heus is combatted by the use of drugs laxatives enemas and tupes Intravenous hyper tonic salt solution i of value and in selected cases splanchnic or spinal anasthesia Repeated or con tinuous gastri lavage affords great relief. Enteros tomy is in licate i only in localized or mechanical ileus Thrombo is and embolism are best avoided by active everer e and getting patient out of bed early

Circumscul el pentonius lends itselt less dein intels to a single plan of management. In cases of not more than nic days duration the results are best and the mortality i lowest when operation including remosal of the appendix is performed immediately. This is true whether a palipable mass is presented to the product of the product of

In exten 1 e bibli graphy is appended together with ab tract of the hi tories of about 1 250 ca es of peritonitis of appendiceal origin

Lto W Zinn an N M D

Ldmu sds A Un ucce sful Appendicect my

In man ca e in whi h appendectomy is per i medit is quite ea to be certain that the appen

dix is definitely abnormal and might have been reponsible for the symptoms. In other ca es the abnormalities in the appendix are so slight that it seems doubtful whether they could have caused such definite symptoms. In some of both types of case the patient is not hemeited by the operation and it is obvious that some other factor besides the appendix was involved. Fair resembling that of appendiction may occur in the abdormal tail of the production of the lost of the other of the tention of the crecum-

tended to the execution will be a fibromuscular sheet it. As the abdominal wall is a fibrom such an extended that a fibrom of fibroms and muscular tasta. The most common ceuse of pain in the abdominal wall is a calorest of the musters. In ca es of pain due to this cause a diagno is of visceroptosi is generally mivel and the di comilor felieved by the wearing of an ab lominal belt. The author believes that practically all of the symptoms ascribed to visceroptosis are due to aching of the abdominal wall and have no relation to the viscera.

Constipation of which the patient is often unaware with the presence of dry scybalous mass esin the colon is a frequent cause of abdominal pain Treatment thoughit may be difficult an i prolonged will often result in cure

Painful di tention of the excum may be brought about by the retention of frees atom of the excum spasm of some part of the bo elbevond or mechanical obstruction such as an acute angulation of the colon at the bepatic flevure. I or the relief of an atomic distended colon excoplication is a list able flat adds very little to the event of appendectoms.

SAM EL KAIIN M D

Guibal J Sabotier A and Vassifelt \ Perfora tion of the Rectum by Impalement (i p i forations 1 fe t m par mp 1 m nt) K e d h Par 933 1 466

Perforation of the rectum b impalement demands immediate surgical treatment to prevent fatal pertonitis or pelvic celluliti

Two types of cases are distingui hed (1) tho e in which a sharp object penetrated the anus directly and (2) those in which the rectal woun 1 v as in cidental to a perincal injury. The latter type 1 the more common in olvement of the pertinenum rectal ound usually oce 5 by as of the cul de rectal ound usually oce 5 by as of the cul de volve any of the perincetal tissue control to the control to

evere external harmorrhage occur only from the nectum is apt to be largely internal. When the peritoneal carity has been entered there is muscular rigility over the lower part of the abdomen. The grain of the leagon is e idenced by the general condition.

Local examinati n hould include in pecti n through the procto c pe and ca eful hig tal palpa tion. The urinary organ hould also be examined

bat it efforts should be d rected to yard restoring the normal volume of circulating flu d. Postor erative pulmonary complications are not infrequent as patients operated upon for intestinal obstruction are in poor coud tion. There are a few reports of cases in which tetanus developed Continuation of the gastro intestinal symptoms especially those of obstruction may be due to incomplete rehef of the obstruction or a functional obstruction superimposed upon a me chanical obstruction Patients with such postopera tive symptoms should be treated conservatively by gastric lavage. Operations for intestinal obstruction are apt to be followed also by an intestinal fistula The higher the fistula the greater its importance High inte tinal fistulæ are especially dan erous be cause of the as ociated loss of intestinal secretion The various methods of treating such fistulæ are di cussed Even though rather extensive resections of the intestinal tract can be tolerated they may be followed by severe malnutrition

ALTO O HISNER M D

Cana e o M Th Histological Changes and the Functional Adaptation of th Small Intest ne After Col tomy. An Experimental Study (Sulle m d f can 1 1 m h e ull datt m to f can 1 de tenu d po la le t mas R c che sp nmt tale) Pi I R m g j 3 2 ch

The author reports the results of total colectomy followed by end to end anastomosis in four dogs fifter the operation the dogs were carefull stud ed clinically and roentgenologically and sacrificed at the end of three five and eleven months

It was found that the terminal loop of the small interime beame almost dent can with the ever set colon in sure and shape and that coincident with these changes there were bistological changes the hyperpla in of the times musculari and mucosa. These change could be demonstrated from te to six months after the operation and verewell marked by the tenth or eleventh months of the color with the contraction of the color with t

LIGENE T LEDDY M D

Bauer G The T extment of Append citis Perito nitis (7u B h dian d App d in Pent ins) 1 i h g 5 nd 933 l 5 pp

In a monograph of unpressive proportions Baue analyzes all cases of append cits seen at the General Hospital of Valim S eden during the per off from 1850 to 3 with peer l'effectine to the treatment of pertionits of appendiceal origin S nee 10 3 the testiment of pertionits of appendiceal origin S nee 10 3 the testiment of pertionit in that hospital has been stabilised and patient have been admitted reason abl), cs. 1). Consequently the cases seen since 103 (5.9 of the total scenes of 6.15) were selected 105 (5.9 of the total scenes of 6.15) were selected 105 (5.9 of the total scenes of 6.15) were selected 105 (5.9 of the total scenes of 6.15) were selected 105 (5.9 of the total scenes of 6.15) were selected 105 (5.9 of the total scenes of 6.15) were selected 105 (5.9 of the total scenes of 6.15) were selected 105 (6.9 of 105 of 105

The treatment of appendicatic peritonitis remains a moot question Comparative statistics are directly to evaluate because of the lack of definite entera as to the presence of peritonitis the differences in terminology regarding the type of peritonitis and the difficulty of determining the circumscription ex tensiveness and severity of the process. The author divides his cases into tho e of circum cribed a d those of non circumscribed peritoritis and sib divides the latter into mild moderate and severe cases His cases of acute appendicitis include 3 7 9 without peritorities or with only serous peritorius (mortality o 7 per cent) and 1 449 cases with suppurative peritonitis Of the latter 773 were no circumscribed and 6 6 circumscribed. The treat ment of non-circumscribed peritoritis has been standardized in the Malmo Chinic since 1909 There fore the cases treated since that time of in num ber were selected by the author for detailed tudy In these cases there vere or deaths a mortality of so per cent The plan of management in circum scribed periton tis has remained essentially un

changed since 1903. Therefore all cases ince that date totalling 6 6 were included in the study. In this group there were 4 fatalities a mortality of 69

per cent

Analysis of the cases of non-ci cumscribed pentonitis reveals wide fluctuations in the mortal to curve from year to year and to a lesser extent I om one three year period to the next. Of greater significance is the fact that the mortality in the last decade is definitely higher than that in the n eceding decade The mortality increases with the duration of the di ease before operation. It is greater in males than it females and highest in childhood and old age. Defi nite perforation of the appendix was found in about 60 per cent of the cases. The incidence of perfora t on increases with the durat on of the disease and the mo tality is about thee times as hi h in care with as in case without perforation. The mortal ity I om circumscribed peritonitis exhibits similar fluctuations although the rate in the last decade w s somewhat lover than for the precedin decade In this group the death rate was higher among females than among male and a relation of the mortality to duration was much less evident. Cases in which the appendix was directed medially or upward were re spons ble for the gre test percentage of deaths

The most of puted problems in the treatment of non croumscrobed pertunuit s are the advisability of immediate operation in cases of mo et han fortught b ur duration and the advisability of draining of the peritoneal casity. The author holds that operations had the done in every case irrespect e of the duration of the condition is as long as the partent is not morbured and that the abdomen should be closed 's thout of among mild cases of non or cumscribed pertunuits. In case in which the bed of the appendix is necrotic or granulating or persistent coning occurs. local draining of the dangero's a cas a advisable but this is in no win to be miltimated to the appendix and the preted as an attempt to drain the free pertunois.

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In recent years attempts have been made to dif ferentiate between the various grades of malignancy It is well known that the rapidity of growth and cell dissemination varies greatly and that breast cancer may run a rapid course of a few months or may be present for many years with very slight symptoms of activity or stread. In cancer of the rectum the age of the patient is a factor but the structure of the tumor and its ability to liberate malignant cells are of great importance in the virulence of the disease Dukes has attempted to group cases of cancer of the rectum according to the depth of penetration of the wall of the rectum and the presence or absence of secondary growths in the lymph glands. From a study of cases so grouped it is apparent that the presence or absence of infection of the lymph glands is of more importance in the prognosi than the ex-tent of the local spread. Many of the cases reviewed are too recent to be of aid in the estimation of the

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The authors conclude that the grading of rectal cancers has not, et reached a tage at which it will permit a much more accurate prognosis than that which has been possible in the past. Then it tological structure may vary considerably in different parts of the growth and the tumor can be graded only accurately by complete examination and by noting the type of structure which preponderates. Conclusions based on examination of only small pieces of tumor are certain to lead to error.

In conclusion the authors review briefly cases typical of the various grades of malignancy and extent of spread showing in each instance the local spread by a large section the lymph spread by a gland chart and the grade of malignancy by a photomicrograph

John W. Nuzux M. D.

#### LIVER GALL BLADDER PANCREAS AND SPLEEN

Lambret O The Surgical Treatment of Gall Bladder Stasis (T attment charurgical d las stase vé ic laite) P esse méd P 1933 xh 1007

The diseases peculiar to the infrahepatic region may be classified into 2 groups (1) vicer cancer choleithiasis and the inflammatory results of choleithiasis and (2) certian more or less functional disturbances which are differently interpreted by vanious authorities. It is with the second group particularly gall bladder stassis that this article deals. In spite of the important studies of Lyon and Chiray there has been no unanimity of opinion regarding the diagnosis the nature or the treatment of gall bladder stassis. In Lambret's opinion the essential feature of gall bladder stassis is susception in the state of the superior size of the state of the state of the control of the state of the state

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Some surgeons regard colostomy as essential in outher surgeous regard constoury as a securior and all cases whereas others perform it only in cases of extensive injuries The authors state that in cases of

simple lacerations of the mucosa ordinary surgical cleansing and drainage are sufficient in cases with lesions of the rectal wall and adjacent structures the integrity of the peritoneum should be established by Japarotomy and a colostomy per established of taparotomy and a conviction per formed. Drains should be placed in the anus and through lateral pennectal incisions Bladder in uncessbould be treated by means of a retention catheter or by cystostomy depending upon their

When the pentoneal cavity is involved the usual procedures for hemostasis suturing of perforations and surgical cleaning should be carried out. In most cases a colostom, is essential. In accordance must cases a constoury is essential to accordance with the present tendency in France the authors with the present tenuency in stance the authors rely upon gauze drainage particularly in the form of the Mikulicz drain

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The authors cite the case of a laborer who fell from a ladder onto the handle of a shovel As his clothing was not torn the injury, was considered slight and he was placed under observation. The anus was found dilated and a small amount of blood came from the rectum Within four hours the pres came from the rectum onton four mours the presence of senous internal injuries was manifested by a rapid rise in the pulse rate and rigidity over the a rappu lise in the pulse tate and require lower part of the abdomen At operation the pelvis tower part of the abbunder of operation one persons was found filled with blood and faces and an ex tensive tear of the rectum into the cul de sac was tensive ten of the section into the turbo sat was discovered. The section was repaired a Mikulicz discovered the recently was reported a strange drain introduced and the operation terminated by colostomy Uneventful recovery resulted
ALBERT F DE GROUT M D

Wood W O and Wilkle D P D Care noma Study Ed b 1st 1st 7 933 i 3

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JOAN W. NULTER M. D.

#### LIVER GALL BLADDER PANCREAS AND SPLEEN

I ambret O The Surgical Treatment of Gall Bladder Stasis (Traitment chiru gic 1 de las stas vésiculaire) Pesse méd Par 933 xh 109

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ALBERT F DE GROAT MD

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JOHN WILLY MD

#### LIVER GALL BLADDER PANCREAS AND SPLEEN

Lambret O Tle Surgical Treatment of Gall Bladder Stasis (Tra tment hiru gic l de las stase vés culaire) Pre se méd Par 1933 xli 1097

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an abundant amount of B bile and is followed by re an atunuan; amount of to buc and is someway of the for a time. The most valuable diagnostic methods to the state of the st net tor a time a me moon variable magnoon me to cholect stograph). This shows a persistent gall is currect stography. This shows a Prinstell Sea. bladder shadow and disclo es the shape and location of the gall bladder

The functional effects of stasss are easily under the numericular current of always are case, under the bile becomes abnormally concentrated

and vised making evacuation of the gall bladder and special making evacuation of the gan unadore difficult of impossible. The result is discomfort or pain in the right hi pochondrium. The condition be JAMII HAU THEM ALPOCHUMATHUM LAG COMMITTON DE COMPLEATED WHEN THERE are adhesions between the gall bladder and duodenum

While treatment by the method of Lyon often gives good results lasting for a pe tod of two or three months some patients are unable to tolerate it and thousas some partents are meane to increase is and from are benefited by it for a considerable length

Surgical methods of treatment include chole outsects accusous of recarment arounce came of steering drainage and internal drain se Cholecy stectomy does not give relief and often makes the condition worse

External dramage is of value when cholecyst its Externat grainage is or value when chorevast to or pancreathts is present. In cases of stasts alone the patient is releved only as long as the fistula persus Internal drainage by anastomosts of the gall blad der to the stomach or duodenum is not a physiologi ter to the stomach or ononemon is not a physiological operation. While the results are sometimes ex

As posses particularly of the stomach is the essentially as the second in the stomach is the essential as the second in the stomach is the essential as the second in the stomach is the second in the t al feature in these cases the author believe that operation should be directed primarily to the pross

operation moving we directed pringarity to the pros-and procedures on the gall bladder should be ac At operation the gall bladder may be found nor mal atomic or obstructed. When it is normal the operation should be limited to phration and sus

operation should be mainted to purcation and sus-pension of the stomach. When phosis and stony of pension of the stomach timest prosis and account the gall bladder are found places on and su pension the gall bladder are found places on and su pension the gall bladder are found places. the gan unager are found purest on and su pension of this organ should be added. The fundos should be reduced by invagination beneath a pursesting su

If the plosis is due to anomalies of position with kinks of the cystic duct within the lesser omentum Ada, so the Coate duct vitam the lesser omentum the duct should be isolated in order to destroy adhe the duty should be isolated in order to describ additional stones and in order that it may be straightened. The sous and in order than it may be straightful and resulting defect in the pentoneum may be repaired is a peritoneal of prepared graft of ammione mem prane Adhesions to the duodenum are particularly They must be destroyed and their recur rence prevented The raw surface of the gall bladder should be covered with a prepared graft and that of amound on covered name a prepared grant and that of the duodenum is invaginated by a transverse su the unonemia is magnated by a cransverse su tree. This suture displaces the duodenum to the left and out of contact with the sall bladde In some instances duodenal stasis necessitates duodenojejunostom; in addition

The operations described are well tolerated The author obtained satisfactor results from them in a scries of 120 ca es. In the oldest cases the result have been maintained six Jears

ALBERT I' DE GROUT VI D

Shann II and Fradkin 3) Z. User Sequentiation

After Großer-Steetony: Report of a Gase with

Bertam of Framenmarial and CI medi Roberts

The Company of Co After under succions Aeport of a case wing a Review of Experimental and Cl nical Obserts

Two months after cholecystectoms a noman of And mountain after thomes sections, a nomine of open to a pers ten forty eight years was operated upon for a persitent fact fed to a collection of bite and purpless for the fixth of the fix under the liver lifter separation of adhesions a exposure of the undersurface of the fiver a large mi of grave he white necrotic tissue suggesting a spon left at a previous operation has found to the me nert at a previous operation was counte to average of the gall bladder lossa. Withdrawal of the mass which was accomplished easily by ships traction which was accomplished easily or so in traction exposed a deep cavity in the liter which has lined exposed a neep cayit in the liter when has more with fough granulation tissue. Pathological et anniation showed the mass to be composed and in the case of massive transformations and a most case of massive transformation. recovery

of necrotic In er tissue The patient made a good The authore state that when the numerous opera Ann autous State that when the numerous views on the gall bladder and adjacent tous performed on the sen undoor and adjacent organs are considered in the terms same that there is so few reports of injury to the hepat c tessels followed by lowed by heer necrosis Anomalies of the heart attern or its branches or a fortuon course of the attent or its orantenes of a tortuou course or the bile ducts noticed make clamp-

ing or ligation easily possible in difficult operations s on neuron easily insolve in difficult operations as shown in the case reported accidental light of the bepatic ariery or one of its large branches a Cause anamic infarction with sequestration of hi MILLI ME SHACKIETON M.D. Elman R

creas But II thout vectos s Hemorrhage o Suppuration S & G

The author reports four cases of his own and te viens thirty the ee collected cases of a disease emitty which he d agnoses as acute interst tial pancreatitis This condition is characterized by induration 5 ell

ing and exdema f the panceas. Having thase sup-As a rule there is a history of pre lous attacks. o et a period tang ng from a few weeks to a number samplons between attacks while others complete to the state of the sta Many patients ha e complete relief of of chronic dyspep ta simulating gall bladder d ea e

Pain is the predominant symptom In some cases its so severe a to cause prost atton. In nearly half the subsection to cause profit atton an accust man for the cases with set r pa n operation w s per formed within it cuts four hours after the one t in the majority, a diagnosis of biliary col c perforation of a peptic all er of intestinal obstruction was made or a peptie at er or intestinat ountil from has more before the operation. In only sattern f this is a before the operation in only sixteen i tol is ne cases was the sail bladder found deased in no nastance has pe foration of obstruction di co ered Local tend mess was present n the mid ep g sin m and occasionally also in the l ft o right upper quadrant f the abdomen (h osuria occurred in

quadrant the abdomed to owns occurred to S. Cases and a marked in rease of the am lise of s x cases and a marked in rease or the air case or the blood in one ca e. Lipase and dia lase were

found in the utine in two cases. In all of the cases the partiers was examined at operation or autops; It was found definitely edematous and sometimes hard and indurate! but showed no harmorthage or necrosis. In a number of cases the cidema appeared yellow or green suge ting the presence of bile but microscopic studies of the ti sue failed to reveal incross. The striking finding wa a marked infiltration of polymorphonuclear cell into the interstitial tase of the pancress.

The author attributes the condition to a reflux of bile from the common duct into the pancreatic ducts. The most effective surgical procedures included bessels drainage of the pancreas by incr ion treat ment of the binary tract unch as bile drainage with or without reminal of the gall bladder or chole extection alone \$ LEFH Westzerk MD

## Leven N L Primary Carcinoma of the Pancreas

The author reviews must vince cases of primari carrinoma of the pancreas. He describes three gross and microscopic type of such tumors. (1) cylindin cal cell carrinoma derived from the epithelium of the duct system. (2) a type derived from the paren chyma of the gland and (3) a type arising from the 1 lands of Langerfams.

Very little 1 known regarding the cause of pan creatic carcinoma but chron c pancreatitis gall stones syphia alcohol trauma and developmental anomalies have been suggested as etiological factors

Carcinoma of the pancreas is more frequent in ren than in comen in the rat o of 3 2 or 4 1. It may occur at any age but 1 m st common between the hith and eventh decades of 1 fe

It develop most often in the head of the pancreas Metastasis first at pears in the regional lymp in nodes and the liver. Of the ninety nine cases reviewed the liver was in object by metastases in fifty nine and the regional lymp in nodes were in often in fifty. The

more common results from local extension lead to obstruction of the duct of Wissings with the development of chromic interiobular fibrosis of the pancreas obstruction of the common bile duct jaundice and dilatation of the gall bladder. In some cases partial obstruction of the duodenum or pylorus may occur Occasionally, pressure on the portal vein produces ordems and assettes

crdema and ascites
The most constant symptoms in the hospital cases studied were cachevia loss of weight anotexia and weakness. The next most frequent symptom was jaundice. In some cases the juundice was accompained by pain. Three types of pain were distinguished to the pain of the properties of the

The most significant findings of physical examina ton were emacation jaundice distention of the gall bladder and enlargement of the liver. The gall blad der was palpable in fourteen of the tient cases presenting jaundice. The liver was enlarged in 8 tiper cent of the sense \ \times \text{times mass other than the liver and gall blad ler was found in seven cases. In \text{times the case is the case of the case of the liver \text{times the case of the liver \text{times the case of the liver \text{times the liver and gall bladder. In the majority of cases \text{ ray examination was of little diagnostic and

Three types of operations were carried out (1) simple exploration (2) cholecy stectoms and chole exslogastrostomy and (3) cholecy stoduodenostom. The maximum survival after operation occurred in access in which a cholecy scienterostomy was per formed. In the eight cases in which the operation was done the average survival period was fourteen and one hall months. Irradiation treatment is of doubtful value.

quently initiated by amenorihoza. The regressive quently initialed by amenorings. The regressive processes which occur later are des and progressive processes which occur later are designated b) the author as the second stage. These ignated by the author as the second stage. These are followed by the third or postoperative stage. It are tottoned by the third or postoperative stage. It appears that the rest of the pathological phenomena appears that the rest of the pathological phenomena are able to develop only when the ovaries have been are able to develop only when the ovaries have been tendered quescent. These phenomena occur with tendered quescent these phenomena occur with a definite sequence. In cases of supratenal tumor out a denuite sequence in cases of suprarenal tumor puberty is reached early and characterized by het puberi) is reached earn and characterized by net eroserual phenomena Theoretically it is possible erosevual phenomena
that premature pubert) 15 induced also in cases of that premature puberty is induced also in cases of the reference femiliaration after opera armenooiastoma the re tempuration after opera-tion usually appears punctually with re appearance tion usuany appears punctuany with te appearance of the menses. In five cases pregnancy occurred sub of the menses an inve cases pregnancy occurred sub-sequently. The hormonal effects of the tumors sequences in a normonal elects of the tumors refute Halban's theory of secondary sexual maniretute Haidan's theory of secondary sexual manifestations. The condition necessary for the developfestations The cond tion necessary for the development of an arrhenoblastoma as well as for after ment of an artnenpolasioma as well as for neer sectial, m is a chromosomally engendered deviation sectual m is a caromosoman, engendered deviation of the body structure from the normal. The author of the body structure from the normal the author seeks this deviation not in the general constitution secks this deviation not in the general constitut on of the patient as is done by Halban, but in the tessue

## ROBERT MEYER (G)

## R net A MISCELLANEOUS

net A. Clinical and Semiolog col Si Cornecolog cel Fain (Ettote el col Si I aque d'i d'uleur en gonée el qu'i t g) et d'i d'uleur en gonée el qu'i t g) et d'i d'uleur en gonée el qu'i t g) et d'i d'uleur en gonée el qu'i t A Clinical and Semiolog cal Study of The author first reviews the general ettology of

And author past terriean the general enough of pain and describes the tro classical types of pain pain and describes the 1 to classical types of pain ecognized by psychologi is (1) a sensation result recognized by Ps) chology is (1/ a sensation result ing from a functional or organic lesion, e ther visceral the from a functional of organic teston e ther risceral of penpheral and (2) central or psychic pain. The or perspheral and (2) central or pavenic pain line p oduction of the first type requires an excitant re p onaction of the most type requires an extremit re-reptor organs, conductors, and centers of interpreta teptor organs conductors and centers of interpreta-tion. Binet discusses each of these components in tion the discusses fact of these components it some detail classifies the excitants traces the resome deta 1 classifies the excitants traces the re-ceptors and conductors to the cente s of interpreta ceptors and conductors to the centers of interpretation and gives the accepted neurological explanation tron and gives the accepted neurological explanation of the latter. The discussion of the central or paychic of the latter the discussion of the central or psychologisms and of mythomaniacs pains involves a consideration of any communication propersensitive persons paranoiacs and other abnor mal types of individuals

The pains associated with go necological conditions are divided into the psychic and the physical are divided into the psychit and the physical Psychic pain is manifested by a parall st of thought Asseme pain is manuested by a paratyst of inough and action and physical pain by local seasitivity motor reactions such as reflex contractures of de motor reactions suco as senex contractures or the fen e and particular attitudes, respiratori changes secretor, changes and sympathetic nervous system secretors changes and sympathetic nervous system changes such as those causing dilatation of the

upus Gynecological pains are analyzed with regard to their intens it, periodicity protocation rel ef loca

In conclusion the author says that careful cons d an concussion the author save that carried cons of the manifestations intensity and localizatraining of the manufacturious infection and notation of pain is of great aid in the determination of the GEORGE C FINOLI M D

Pierra L VI The Treatment of Pala In a colog cal Conditions (The Treatment of Pala In a consequence of accologic) Kind on the fact of the

In a preluminary discussion of the ethology of t in gonecological conditions the author d stinguis the types of pains the functional and the organ two types of pains the functional and the organ.
The functional pains are due to a physiological d. Ane functional pains are due to a physiological diffurbance in the sex organs and are therefore per turnance in the sex offens and are therefore per odic. Examples of such pain are dysmenorthers odic. Examples of such pain are dismenorthms intermenstrual crises and di pareuma. The or intermensituat crises and di pareuma. The or game pains are due to inflammatori. Congestive or gaut pains are use to inflammatori congestive or persistent. Pierra discu ses also localized neuralgas persistent. Pierra discu ses also localized neuralgas such as prunitis vult a cocci d) ma and neuralgas

the pudendal nerve
Treatment has two objectives (t) telief of the Areatment has two objectives (1) relief of the paroxysms which is easily accomplished by the use paroxisms maion is easily accompassed by one use of sedatives and (2) the prevention of recurrence securives and (2) the prevention of recurrence Securities are divided into the chemical and the physical and the former into those acting on the paysical and the former into those acting on the central nervous system and those acting on the centrate nervous system and those acting on the peripheral nervous system. Sedathes acting on the peripheral nervous system. Sedath es acting on the central nervous system are of three types (i) true analysis such as morphine (3) anniherms and the contral system as the contral system and the contral system are contral system. analgenes such as morphine (1) antithermic analgenes such as antipyrine and (3) analgenes with a Resurs Such as anupyvine and 11 angigeous ware action such as acouste Sedatives actin on mixed action such as acouste occurred acting of the peripheral perious system are anti-passizades the peripheral perious system are anti-passinous, which have a selective action on the utetus. They raico nave a selective action on the uterus anclude excitants of the sympathetics, such as ad e incume excusures of the symptometric such as an inalin and ephodenn and paralyzers of the sympathetics such as ergot and joining the sympathetics such as ergot and joining the sympathetics such as ergot and joining the sympathetics.

Physical sedatives include bed rest topical apply cations and initiants baths douches inigations and initiants baths douches inigations and

a neral water inerapy everal prescriptions based on the usual hypnotics and antispasmodics (antip) in belladonia cannibis indica) are included in the article

In conclusion the author discusses the inject on an conclusion the author discusses the injection method of freatment with valous solutions such as nection of creatment with various source one such as Sicard's solution salicylic acid and a solution of ordatu a sometom sameyne aciu anu a sometom so bennyl benzoate. He states that some gynecologisti bensyl bensoate the states that some gynecologists hate obtained ten sati factor, results from this Cotte G

GEORGE C. F VOLT VID The Surg cal Treatm nt of Pain in Gynecology (Trait m at Treatm at of Fain an Army ) Ref / d fi (1d b) 1931

Pract call, all les ons of the female gent ! tract mat be accompanied by pain at some time during the course of the revolution. In cases with intratable neuralga it often becomes necessary to infer case upon the respons ble nervers

con upon the responsible nerves
The female from the next state group in the following
three groups of certes: "the per to example the
Superior bind of certes: "the per to example the
Superior bind specific to the superior bind
and nerve of Eastern the terror bind of the superior bind
and the superior bind of the superior b and (3) the internal pudendal nerse. The first two and (3) the internal propential series and vegna and veg the internal pudendal nerie supplies the external

The technique of the various operations on these nerves an I the commonly u ed surgical as proaches

are le cube !

I enarterial sympathectomy consists in stripting the fibers from the common that and hypogastric arteries Operation on the presacral nerve consists in resecting from 2 to 12 cm of the nerve nerve is realily accessible over the promontory of the sacrum | The author performs these operations

un ler at mal anaisthean in liscussing interventions on the utero ovarian r lexus (internal spermatic plexus) the author says that the fibers of the pleaus to the overs are vers small an I surround the senous pleaus so intimately that resection is very inflicult. Depp ler and others

have therefore sulstituted the injection of isonhenol soluti as for resection

Uterine nerves are best at proache I through the tr ad ligaments as is done in Cermany

Veryotomy of the ru lendal nerves may be done a ly un ler local anasthe ia through an approach ne fingerbrea lth from and parallel with the isch it übic ramus

(h r l toms requires an incision along the third I urth an I fith dorsal vettebræ laminectoms and the triangular resection of a specific portion of the

lain associated with inoperable carcinoma is treated by chir lotomy or resection of the presideal nerve (h r l tomy however often results in only incomplete analge ia and i followed b trot hie dis turl ances an I listurbances of the bla I ler and anal s, hincters

In fifteen cases of morerable carcinoma with nel vic neur le i in hi t lanu resecte l both the tre sacral ner e and the penantenal hypogastic sym Jatheti s there were tw de th Of six cases of in wer the car inom in which this operation was performed by Cotte gratify ng re-ult were obtaine i

in five C tte tates that in principle inter entions on the jet is sympathety are justified only when the pain is lue to a primar or second to hypogastric plex ti from in a i n f the parametria or neighbor ing ellular to ue b car nm lt is t i us that if the tin maetent patril tin lie or e m res the estal plats recent in of the preserval rerve with a peria terial's months tin Ittle elect In the presente of a litural r or a so to reur le or e en fa ja i l para legua the or the url

fibroid or cyst is present such resection is of course upnecessary

The surgical treatment of utero ovarian r levalgias is much more difficult and unsatisfactors

Neural use of the internal nudendal nerve asso ciated with various or krautosis vulva respond well to nerve resection Croses C Front MD

Politzer G The Continuity of the Germ I farm in Man (Die Keimt ahn des Menschen) Zis h Anal 1011 C 31

Since Nussbaum claimed that in batrachians and teleostians the sex cells levelop independently of the body cells-a theory upon which Weis mann's the ory of the continuity of the germ plasm rests -con tradictory views on the independence of the eex cells in mammals and especially in man have been expressed Recently Streve opposed the the ry in spite of the confirmatory findings made by Fischel I olitzer and Sternberg on well i red and stained human embryos

I olitzer discusses the problem on the basis of seventeen human embry of ranging in size from o a to 8 5 mm which permitted definite conclusions to be

drawn regarding the germ r lasm

The protoblasts or primor hal sex cells are glob u lar or long ellipsoid and sho round nuclei with fre quently a short pointed projection toy and the st here The nucles have a very ine retigular structure and one or to o nucleols The cells are easily differents ated from blood cells by light staining with eosin In a spherical structure within the cytoplasm Le several small granules presumably centry les which stain darkly oth hymatoxylin. These form a vertical connecting plane bet een the mildle of the nu cleus and the sphere the centri lar plate there is always present. In the mitosis of the pri mordial sex tells the pr I haves are larg r than in the cells of the epithelium of the bowel an I vitelline a They lie deep in the epithelium and at times sho definite remains of the phere
Later phases cann t be differentiate ! from these

of other cells. In general there are ery few mit sees in the prim rdial sex cells and not more than three in the embreo as de issim takes place raps the sin about fort minutes) and the increase of the inmord al cells from 40 cells in the 06 mm emir 0 to 600 cells in the 4 mm embr o takes about ten days It is therefore not surj rising that no kars kiretic Egures are seen

The migration of the primord al sex ells is prove ! st tata alla as well as membrol g calls. In embrace of o 6 5 and o 5 mm the primo dal sex cell were I und in the entocermal epithelium of the vielline sac rear the di erticulum al anto entericum. Here the la heaped un han gong ated apparently from sor at frman cells In a 3 mm embroods if n mo i isexcell east ni In embro not from of 5 t amm allprim u alsex cells ne ein thee tod in I samm embran mo tof them nere in t e bouch er thelumar to hafen ntheatace tco ecti e t . tr. rate et tem In emtrea !

from 4 to 4 5 mm more primordial sex cells were found in the mesoderm than in the entoderm partie ularly in the cranial as compared with the caudal region Gradually the number of primordial sex cells in the entoderm decreases with the a.e of the embry o whereas the number in the root of the mes enters and especiall in the median part of the urogenital fold constantly increases. Therefore these cells migrate

As the caudal portion of the vitelline sac forms the rectum and the cloaca the primordial sex cell come from the wall of the vitelline sac into this region when the embry o reaches the size of about 4 mm. As the re sult of the progressive division of the cloaca nr. mordial sex cell from its wall reach the caudal ex tremity of the umbibial loop when the embryo

measure between 6 and 8 5 mm

Mornhological p oof of the migration is found by Politzer in the sending out of projections of the primordial sex cell in the entoderm into the connective tissue combined with ring like constriction by the basal membrane of the epithelium. This occurs most frequently at a time when the number of the cells makes their imgration probable. While the lo-

cation of the phere in the primordial rells in the entoderm on the one hand and in the gonads on the other has apparently not been determined den nitely nevertheless in the cells migrating from the entoderm to the gonads the sphere always tort i the side of the nu leus pointing to the gonads. Dur ing the migration the cells do not divide Mito v division and other activities are not simultaneous functions

In male and female embryos between 15 a d 1 mm the primordial sex cells are always present in the gonads. In this regard the author rejects the findings of Neumann and Streve whose material and conclusions he regards as faulty and bases his arguments chiefly upon the experimental findings of Dantschakoff who has definitely proved the con timuity of germ plasm in birds and has shown that no primordial sex cells develop from the colonic

eorthelium In conclusion he states that as the primordial sex cells are the primary cells of the permiogen.c o agenic cells in the human being the continuity of

germ plasm in man is also establi hed ROBERT MEYER (G)

## OBSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

Manger J Investigations on the Problem of Sex Diagno is from the Urine of Pregnant Women (Unter uchung n zum Pr bl m der G seht cht I gn e aus S h n enham) Der tiefe ried Il die sir 1933 1885

An old Eg putan papyrus at the Berlin Museum rejorts that in order to determine whether a noman would bear children the ancient Egyptian placed spelt and barley in a container with earth and watered it daily with the womans urine. If the barley grains sprouted pregnancy was believed to cut I twas believed also that the sev of the child

coul i be determined in thi vay

The author mye tigated the effect of the unned of pregnant somen on the jerumation of wheat and battley grains because dwing pregnancy, the unne contains hormones which may be a calaxorable effect upon the growth of grains. He found that more rapid gro the of the barley as compared with the wheat signified a female child while non accelerated or lelay dig rowth of the barley asginified a male child in studies of the urine of 100 pregnant somen 80 correct diagno es were made. Due a cristrials (G)

Fisci I I The Effect of Pregnancy on the Develop ment and Growth of Benigh Tumors (L b rd Lufluss d Sch ersch it auf d's luit ten und Wacht migut igrich veli; Birrj Bich fr 933 1 645

Not infrequently in cases of neurofibromatosis prignance causes the first manifestation of latent skin sympt ms or a considerable enlargem in oracrase in number of afreidy existing tumors and prignentations. Delic rev. I followed by extensive refer gre ion and occasionally complete hisappear anteo of the skin symptoms of the di ease.

ca from the second University Gynecological Chnic at Vienna is reported in detail. The patient a primipira tienty years of a showed no pigmente i spots or tumors pre jous to her pregnancy. In the beginning of the fourth month small lobulated tumors appeared in the left hypegastric region Later numerou other tumor de el ped in the sk n of the abdon en the back and the arm Simul taneou h numerou pigmented pots developed on the chest and by k. The s elling in the skin appeare I clini ally to be neurot bromata and were proved to be neur f bromata on hi tological ex amination This vas therefore a definite ca e of neurof bromat sis (Recklinghau en s di ease) Con tr I examinations four weeks and four months after delt ery sho ed complete retrogres ion of the small tumors and disappearance of the p gmented spots The large cock comb tum is in the left hapogastric

region and on the back had become considerably smaller but were still definitely demonstrable

The effect of pregnancy upon neurofibromatosis to be traced to endocrine causes The term neurofibromatosis of pregnancy i preferable to the heretofore common term fibroma molluscum of pregnancy

Symmetrical lipomato is may also be activated by pregnancy. The author reports a case of his own that of a primipara thirty, pears of age, who had a symmetrical lipomatosi on both forearms. Five months after delivery the fatty tumors had completely di appeared

Angiomata and lymphangiomata frequently be come larger during pregnancy and retrogress to their former size after delivery Ha s Heidler (G)

#### LABOR AND ITS COMPLICATIONS

Perl J The Diagnosis of Rupture of the Uterus and the Treatment of Criscs of This Injury (Uebr di Di gnose der Uterus uptur und das the apeut che \ geh n Faellen de er Scha d g nb) Gi k p lik 1033 ur 75

Lacerations of the uterus are becoming le's fire quent from year to year because of profee's in the general medical cate of obstetrical patients the uncrease in the number of ob terical institutions and the improvement in operative technique. The chinicals my forms of impending rupture of the uterus are well known Among the cau es of uterine rup uter are (1) a flat and narro pelvis (2) disproportion between the fetal head and the maternal pelvis (3) operative scars (4) intra uterine manupulations (5) malpositions (6) multiparity (7) external force (8) underdee deponent of the gentials (a) almournal calmon (3) protracted labor (1) obesity and (1) irrational admin tration of hypombased increation.

I termic rupture i usually recogn ed Folloning a sudden sharp pain the labri pains cease and bleeding occurs from the genitalia. The entrance of the bod of the child and of blood into the free periodical cavity causes se ere abdominal pain experience of the child and of blood into the free periodical cavity causes se ere abdominal pain experience of a contract of the child cease. Vecording to Hochine an 17 orn the failure of occurrence of thort pains following the intraneous injection of from to cem of put tinn indicate trupture. The signs of shock and niternal bleeding may be absent. This is often the laterals.

Rupture of the uterus is frequently complicated by rupture of the blad ler. This complication is manife ted by blood unine. The rupture of the uterus ma) be complete or incomplete. In ca es of complete inputure elastic tumous ser frequently found beside the uterus. These are subpertional hamatomats which often cause pann in the lower extremities through pressure on the zere estimated the state of the case of t

Follo sing rupture of the uterus the labor should be terminated as rapidly as posble. When the head I engaged thi I done preferably by perfora tion. The majority of obstetricians favor removal of the uterus as they believe that every case of utenne rupture is infected. However in cases of very recent lacerations involving less than one third of the cir cumference of the organ the uteru may be sutured When the rupture is in the upper segment of the uterus an abdominal incision should be made but when it is in the lower segment a suprasymphy seal incidion is indicated. The vaginal procedure recom mended by Neugebauer is extremely difficult be cause of the profuse blee hag. Conservative treat ment consists in removal of the uter ne contents followed by tamponade of the uterus and vagina and pressure over the abdomen In cases of com plete laceration Stoeckel removes the uterine con tents from below and resorts to operation only when hemorrhage occurs The mortality in the different clinics varies bets een 40 and 50 per cent

In the author's material from 1913 to 1932 there were twelve ruptures all of which occurred in multiparæ Seven (58 per cent) of the patients d'ed

B KOW ISKI (G)

#### MISCELLANEOUS

Spitzer W The Frequency and Obstetrical S g nificance of Rupture of Gen tal satices /L be die IIa ungkent und g burshill che Bede tung, d Ruptur d'r Ge tal ar cen) Ze trall f G k 1031 p 401

Varice of the female generalis may be external or internal Internal varices may lead to severe ustraable of the severe services and the severe ustraless of the severe services and the severe External varices are classified b Vaquota into a long group occurring on the vul z vagina and external part of the prito vaginal, and a high group occurring in the cervix the lower segment of the Letters and the utterne will be the con-

"himog 3 77 b rths "Spitzer observed 19 cases of rupture of external variets During pregnancy, the disposos of hemorrhage due to variets may be did not as the bleeding may be contrased with that due to placenta pravia or premature separation of the placenta I not all cases in which bleeding from a runers is suspected a speculium examination is advisable in the differential diagnosis atomic externe bleeding.

must be ruled out Frequently palpation of the uterus will be sufficient to rule out bleeding from a attenue tear. However particularly in astheme tear thousand particularly in astheme the dividual both types of bleeding may occur. The occurrence of harmorrhage from varices late in the nuernerum is rare.

The causes of general varices include besides disturbances of endocrine activity of the hypphras (diminution of the vasionic action of the hypphsis) a marked shifting of the blood from the splace nic vessels to the peripheral ve els and the isthenic ploss type of constitution associated with

mechanical factors

In the intravagual treatment good exposure of the involved area must be obtained for solure figation in front of and behind the rightim. Here orthing from the suture points may be controlled by gause packs. Of the external auxiliary procedures manual compression of the genitals according to the Firitsch method is best.

Schaefe W. A Contribution on the Phys ologand Pathology of the Gail Biadder in Pret, nancy Labor and the Puerpenum with Special Consideration of Stone Formation During These F roods, (Zur Ph.) 1 ne und Court and Woche Leitz unter besonder 16 rock in trung der St. ment. tehing im dieser F mod.) Fort & F gs. 1, 20, 3 ft. 44

As its well known women who suffer from gall stones frequently refer their inst attacks to a presper nance or a time shorth after a pregnance. This fact is generally explained by the a...unprion that the gail bladder is compressed by the gravid utriand the gail bladder is compressed by the gravid utrition of the superior of the gail bladder is compressed and the gail bladder is compressed to the formation of gail stones others—among them lackford—reject this theory. Schaefer therefore undertook a study of the entre problem of stone formation during the entre problem of stone formation during

pregnancy.

In this art is he lists review the nerve supply of
the gall bladder and extrahepatic biliary passages
and the ph sology of the gall bladder. He then dis
passages. He states that e en up to a few years a
passages. He states that e en up to a few years a
passages. He states that e en up to a few years ay
merch a reserva of both bladder was bethe ed to be
merch a reserva to for the bladder was bethe ed to be
merch a reserva to for the bladder was been ed to
and a canated by the mo ements of respiration and
metatical per talas. This there was expressed
gill bladder had never been observed daming the
course of an operation.

The most important esserthes regarding the finct on of the gl bladded we emade by Nestphal. Westphal came to the conclus in that empring of the gall bladder is brought about bogall bladder contractions and widers of the entire phincite area in conjunction to the contraction of t

OBSTETRICS 53

The per tone and fat action seems to be based on a imilar stimulus occurring either through the blood or by way of the nerve pathways

The author next discues the Westphal theories concerning the formation of gall stones and describes the experiments on which they were based

For the mention is unliastion of the gall bladder schaefer recommends the intra-enous admini tration of tetragnost. So injury to the fetus from this procedure has I een observed. The various findings of roentgenological visualization of the gall bladder furing pregnancy and the puerperum are reviewed. A number of observers have noted a distinct delay number of observers have noted a distinct delay.

in the emptying time.
The author next reports re earches which he

carried out on twenty, nine healthy regnant women the women were carefully prepared for the examina tion as careful preparation is essential for a successful study. The roontgenograms were made with the Cigantos apparatus with 70 k. 60 ma exposure up to one second (depending upon the circumference of the abdomen) and filtratum with 1 mm of alu minum. In emptying of the gall bladder was tested with the Dotter meal recommended by Bronner With this proce lore all except one of the gall bladders showed a delay in emptying during pregnancy. Whereas normal emptying is completed after one and one half hours a quite large shadow could often be seen after stroours. To determine

shether the delay in comptyings as also to a change in the nervous asstem or to a mechanical factor. Schoefer administered from 0, to 0,5 mgm of atropia subculaneously, to counteract the increased vagal attinulation which was assumed by Westphatt to occur during pregnance. When the Dotter med was given half an hour after the administration of atropia the gall bladder became empty which it to hours even in the ninth and tenth months. However, in most case a very small residual but the scending it. Westphat called residual but, the according it. Westphat called residual but, the according it westphat called residual but, the according it westphat called residual but, the according it westphat called residual but the formation of time still remained.

During and horth after labor a delay in the emptying hime of the gall blid her could no linger le demon trated. Serial rocatigengrams ere mude of the gall bladder during its pyriod of activity with the aid of the apparatus u editor erial rentgenogram of the duodenium. In a fluoro copie study of the excursions of the druphragm. In they or copies the bepartly the possible for the formation of gill stones it was found that even in the tenth month there was not the proposed to the company of the control of the company of the control of the cont

I rom a chemical study of the formation of cho leasterol stones the nathor cume to the con-liston that the described functional changes in the gail bladder together with the changes occurring in the concentration of the blie during pregnance may Javor the formation of such stones "Sunterpa (c)

## GENITO-URINARY SURGERY

#### ADRENAL, KIDNEY AND URETER

- Rose D K. Hamm W F Moore S and Wilson If M The Kidn y Petres Normal Variations in Their Shape and Flow with Possible Pathological S gnificance Su & Gra & & Ob 1 19
- A dysume kidney pelvis is defined as one which is generally regarded as normal yet may permit sta si of unne and thus predupore to patho opical changes in the organ in which statis is a recognized etiological factor A non-dysume Lidnes pelvis is one which permits the free flow of unue through all of its parts. The dysume kidney pelvis may be either actively or potentially dysume that is the flow may be imperfect in the absence of a secondary factor or the interference with the flow may be secondary to external interference with the drainage system causing dysfunction

to special type of lidney pelvis can be termed distinc arbitrarily from its gross appearance. Before a Lidney can be called dy sunc or pon-dy une its drainage system must be analyzed according to pel vic and caly cine capacity contour and the angles of junction of one part with another

The findings of a study of the historie and melograms in 385 cases are summarized as follows

- t. Of 79 cases of normal Lidneys in which a pie lographic study was made to rule out tenal or lower unnary tract disease only 17 showed a disunc type of kidney pel is and in these the abnormal. ) was very slight
- 2 Of 41 cases of renal calculus the pelvis was of the disunc type in 33 of a non-dysone t pe in 4 and of an undetermined type in 4 In 14 of the dysume and t of the non-dy sume pel es there was an a\_sociated pelvic infection
- 3 Of 33 nephralgic Lidnes s without other demon strable cause for pain only 2 were non-dy sume and
- ar were disurre 4 Of 43 ca.es of nephroptosis with resulting symptoms the renal pelvis was of the disunc type
- of the 11 cases of renal tuberculo is the pelvis was of the dysune type in o and of a non-dysun type in 1 In 1 its cla sificat on was impossible be cause of the great amount of destruction of kidnes
- tr.sue 6 Of 10 cases of idiopathic hamaturia the pelvis
- was of the drounc type in 7 A study of 135 cases of py elonephritis indicated that under similar conditions non-d sume pelves will be cleared of infection more rap dly and in a larger number of instances than distinc pel es

8 The dysume kidney pel is should be added to the etiological factors of the prelonephnits of preg

nance. The prognous of the latter conducts is affected by the degree of dysama present.

The final importance of d unic pelves has in the facts the they permy under tass mall or a part of the pelvis and that this stass is of importance in the formation of calcula the occurre or and continuation of infection (simple or tubercu lous) and the causati n of idiopathic hama are and nephralma. TITLING HOOK VID

Burgh le T & Contribution to the Study of Reno-Ureteral Anomalies (Contrib to n & letude des

anomalies reno-urétérales Lien bir ott un.

As the result of the improvement which has been made in the technique of intravelous pyelomaphy and in cistoscopy a diagnosis may be made of anomalies which oth rwise could be found only be operation or autop \ About 5 per cent of persons have some anomaly of the umary system. The is explaned no doubt, by the fact that the development of the kidnes passes through three tares to pronephros the mesonephros and the metanephros

The anomalies may be classified into the following five groups (1) anomalies of the httological str c ture of the kidners (leading to such so ditions a polycystic degeneration) (2) anomalies of form (such as borse-hoe kidner and per, tence of fetal lobulation) (3) anomalies of position (4) anomalies of number (supernumerary kidne ) and (5) anom alles of the kidues pelvis and ureter Detailed figures are given for the incidence of the types of anomalies mentioned Some types of anomalies are more common in one sex than in the other "in formations of other organs particularly the genital organs are frequently associated and as a rule are found on the same side of the bod

The relation of convenital anomalies to blood typing is discus ed but the author's data are insuffice 1

to warrant definite conclusions.

Burghele reports in detail twenty five cases illustrative of the various anomalies.

MARSH W POOLE, M.D.

- Verrière P A Contribution to the Study of latte renal Absorption (C atribution & l'étude d l'abs rption intrarentl) J dwo mil dick EXX 1, 27
- In a study of intrarenal absorption which the author made on animals a sapenion of Inda tit was placed in the lower part of the preter under a pressure barel sufficient to introduce it. The preter was then tied and at varying times theresiter the animals were sacrificed and the kidneys were studied

In pection of the gross specimens and of stamed and clear lides showed that considerable absorption had occurred This was demonstrated in the cell of the pelvi mucosa the collecting tubules the con voluted tubules in the subcapsular tissue the peri renal tissue the lumbar vall and the venules and lymphatics The absorption began within one hour reached its maximum in from sixteen to eighteen hours and then decreased

The extensive absorption of such a substance proves again the enormous absorptive power of the kidney and pelvi and shows the danger of introducing foreign material into the kidney pelvi and the possibility of toxic absorption in obstructive lesions

IOBY W TPTON M D

Cifuentes P Local at on of Renal Tuberculosis by Intravenous Pyelography in Cases in Which Cystoscopy Is impossible (L calización de la tuberculosis ren l p r la piel b aff 1 tra eno a en los ca os de c stosc pa mp sible) Act Sc de c ug de Mad id 1933 1 83

Although descending pyelography with uroselec tan or abrodil does not vield as clear pictures as ascending Lyelography or direct injection into the renal pelvis or show the pre ence of mall lesions it gives an approximate idea of the form and functional condition of the kidney in cases in which ureteral catheterization 1 impossible. The outline of the pelvis and calvees is of greater importance than rapidity of elimination. The indications for opera tion depend upon whether with normal total renal function the pyelograms show marked differences on the two sides

If when the tests of total function are sati factory the shadow appears early and is of normal contour on one side but appears late and is de formed on the other ide the latter is probably the side involved and nephrectomy is permi sible When with the same picture, the total renal fun-

tion is deficient operation is usually inadvisable Lien if with satisfactory total function there is doubt as to the complete integrity of the more nor mal kidney removal of the diseased kidney is not contra indicated as this kidney is not excreting and

may constitute a dangerous focus of infection

When the differences between the two sides are slight in both the fi st and second plates operation is generally contrained cated in cases of abnormal and retarded shadovs on both sides as well as in those with app tently normal sh dows. Ho ever if elimination 1 good the Roi sing huster explora tory operation may be done. In these exceptional cases the I fferences bet seen the tso sides can be app eciated only de t ! Hove er if the phenol sulpt onphthalein test and the blood area are un satisfa tory operation 1 nad isable because al though one kidney appears normal or almo t normal it always conta as some abnormality high cannot be evalu ted The tests for elimination indicate that there 1 insufficient normal parenchyma to avert

In summar ing the author says that intravenous pyelography 1 of aid in cases which show a great

postoperative uramia

difference in the lesions and function on the two sides but is not a guide to intervention when there is no marked difference

A number of illustrative cases are reported with roenteenograms. In some of them later ureteral catheterization demonstrated the agreement of results by the two methods and the correctne s of the decision with regard to operability

M E Morse M D

#### Lieberthal F and Huth T Tuberculous Nephrl tis and Tuberculous Bac Iluria I athology and Bacteriology J Urol 1933 7 153

The authors pre ent the results of a study of 1 000 cases of renal tuberculosis report eight illustrative cases and cite evidence in support of their theory that tuberculou pephritis 1 an incipient surgical tuberculosis They believe that inflammatory foci which have been described by others as tuberculous nephritis are secondary non tuberculous inflamma tory changes They attribute the bacilluria in these cases to minute, undiscovered ulcerative tuberculous lesions of the kidney They state that nephrosis may develop as the result of pulmonary tuberculosis but elomerulonephritis is due to secondary infection Such incipient ulcerative tuberculous le ions may be present in the absence of bus cells in the urine and of evidence of lowered kidney function and vith normal bladder findings on cysto copic examination. Oc casionally they may heal but in the authors opinion they are responsible for tran itory tuberculous bacillurias DONALD K. HIBBS M.D.

Cirillo N Considerat ons on Some Cases of Bi lateral Reno Ureteral I Ithiasis and of Lithiasis e lasi n tene uni ) Cl h 1012 vi elle di cal in a Solitary Lidney (Con dera ion) pr alcu

Following a report of three cases of bilateral reno ureteral calculi and two of calculi in a solitary kid ney Cirillo reviews the symptoms prognosis and treatment of these conditions. The surgical treat ment indications for operation and operative technique are discussed in detail

Cirillo believes that in cases of bilateral renal hith asis the mo e diseased side as determined by roentgenological and functional tests should be op erated on first for if nephrectomy should become necessary later on account of the severity of the renal lesion or secondary hamorrhage or if the func tion of the kidney operated upon should be tempo ranly impaired after the operation it is better to rely on the better functioning Lidney than on the more diseased kidney. However he presents also the zens of surgeons who operate first on the Lidney with better function

Follourg the removal of calcult from a solitary Lidney particularly in cases in which the stones are to nd in the calyces Civillo performs a permanent nephrostomy to favor dramage and thereby possibly prevent the formation of new calcul

PETER A ROST M D



relaxation Relaxation results if the spasm i medi ated through the nerve or the muscle or both

Both papaverin and visammin relax plain muscle tissue by direct action. In the same concentrations papaverin is more effective than visammin on the intestine but less effective than visammin on the human ureter and the ureter of the bull Visam min is therefore superior to papaverin for the treat ment of spasm of the ureter or uteteral stone Relax ation of the ureter results if the spasm is mediated through the nerve or muscle or both

CLAUDE D HOLMES M D

Rolando S Observations on Ureteral Lithiasis (Obser ation s r l lth ase u été ale) J d: ! med eich r 1022 XT

Rolando reports seven cases of ureteral stone to show the possibilities of endoscopic and operative treatment

In the first case the stone had probably been lodged in the ureter for eight months By repeated ureteral catheterizations and injections of glycerin the stone was made to descend from the level of the fourth lumbar vertebra Appearing in the ureteral orifice after four months it was released by ureterot omy performed by electrocoagulation. In the second case the stone was el minated after one month of treatment. These cases demonstrate that with sufficient per istence on the part of both the surgeon and the patient operation can be avoided if the diameter of the stone does not exceed 2 cm and there are no serious complications

In the five other cases operation was necessary because of large size of the stone or complications

Stones often remain lodged in the ureter for weeks of even vears without causing great inconvenience to the patient or appreciable damage to the kidney In some cases they may be entirely latent and di cov ered only in the course of an \ ray examination for some disorder other than lithiasis Latency is usually explained by a special configuration of the stone which allows the unne to I ass

Dilatation above the obstruction may or may not be present. When the obstruction is acute the secre tion of unne is often inhibited. By this mechanism the grave lesions incident to hydronethrosis are prevented The inhibition may last for months and may be followed by re establishment of the urmary function

The author has found the operative treatment of ureteral calculi extremely satisfactory. In the ab sence of serious urinary infection operati- e complica tions are rare. Certain pre operative measures are essential The location of the calculus should always be verified immediately before the intervention with the patient in the Trendelenburg position

calculus which occupies the transverse portion of the ureter appears in the roentgenogram about 2 cm lateral to the border of the last sacral vertebra on a line joining the upper borders of the acetabula When the intramural and esicular portion has been reached the stone les at the lateral border of the

sacrococcygcal articulation 2 cm below the inter acetabular line When the stone has penetrated the bladder it is in front of the articulation and slightly to one side of the median line

When the stone is in the lower portion of the ure ter 1e at or below the interacetabular line it should be displaced upward with the finger in the vagina or rectum as in this way it may be rendered more ac

cessible at operation

The author performs ureterotomy by the standard extrapentoneal technique Removal of low lying stones is facilitated by having an assistant steady the stone with a finger placed in the rectum or vagina When the point of impaction is surrounded by in flammatory to sue it is preferable to incise the ureter at a higher level than to attempt to isolate it in the midst of the sclerotic mass. The stone can then be extracted with a forceps

In the cases reviewed the author employed in travenous urography ALBERT F DE CROAT M D

Huzanoff I O ard Tzhwetadzé J J Implanta t on of the Ureters in the Skin in Total Extirna tion of the Urinary Bladder (50 1 mplant ton des u tères à la p au d ns l blation t t l de la esi) Jd 1 fd el hr 933 x v 473

The chief problem in extirpation of the urinary bladder is the dist osal of the ureters \ choice must be made between implantation into the intestine and implantation into the skin Implantation of the ureters into the intestine 1 frequently followed by poor immediate or late results. According to statis tics collected by Smitten the ho pital mortality in 316 cases in which such implantations were done as 36 8 per cent and in cases in which the operation was performed on account of a malignant tumor it was 63 8 per cent I velonephritis is an inevitably fatal complication The effects I roduced on the in testine are not negligible colitis even ulcerative co litis has resulted. In addition, there may be general symptoms due to continued re absorption of urine and fluid faces changes in the bacterial flora of the colon and lesions of the intestinal wall

Implantation of the ureters into the skin was first proposed by Gigon in 1856 and was performed for the first time by Le Dentu soon thereafter Sub e quently this operation was abandoned until quite recently

Implantation into the skin is relatively simple and as it is an extraperitoneal operation is associated with relatively little immediate risk. I selitis occur frequently but its treatment by lavage is facilitated by the accessibility of the ureter In fact the pos sib I ty of active treatment of renal infections greatly extends the limits of operability. The authors pre fer inguinal ureterostomy to the lumbar ureteros tomy because it a associated with le's danger of Linking of the ureter Moreover the patient can apply the apparatus without aid. Among the complications are slougting of the end of the ureter and stricture Neither of these s frequent or greatly peopardizes the success of the operation

Wu P P T The Relat ve Activity of Various Port one of the Excised Ureter of the Dog J U 1 1933 XXX 307

Twenty four excised ureters of dogs were studied immed ately after their removal from the body and after being kept in Ringer Locke solution in the re fingerator for from two to mnet; six hours. The de grees of activity of the pelvic middle and vesical thirds when placed in oxigenated Ringer Locke solution at a temperature ranging from 37 5 to 38 5

The wall of the ureter contains all the factors necessar3 for independent activity segments contracted spontaneously

Of fourteen ureters in which there was apparently The excised no extraneous facto to be considered the greatest degree of activity was shown by the pelvic third in six and by the middle third in six. The vesical third was least active in ten and most active in none

A perfect grad ent in the rate of the thrue contrac tion with the greatest rate in the pelvic end was found in seven ureters 465 per cent of the more satisfactor, experiments A perfect gradent in the seriese direction was found in two nieters pat in both of these the blood supply to the upper portion

It was sometimes possible to reverse the gradient in the ureter

Barbera G A Contribution on the Surgical Dera G A Contribution on the Surgical Treatment of the Painful Syndromes Due to Treatment of the Fainth syndromes and the Malformations and Dy k nesia of the Pyelo Ureteral Apparatus Associated With Walforma oreteral apparatus associates with manorina tions of the Lumbo acral Spine (C ntrib t alla cura chirurgica d II cora cimurgota di mio ona i no ose di di mali ma oni di scines dell'appa ato pelo-metterico concomitanti con malformazi ni di li col n | mbo-cacral ) | h fal d

Recently attention has been called to the fre quency of pain syndromes of the urinary tract in cases of malformation of the lumbosacral spine. The pain occurs in or about the lumbar region often radiates to the scrotum vulva or thigh and at times simulates renal colic Not infrequently there is bematura but examination of the urinary tract shows no evidence of stone or inflammation and Lid ney function is normal. The author studied thirty cases with a pain syndrome and shree with hama

The relationship bet veen the vertebral malforma tions and the painful pyelo ureteral syndrome is not clear Howe er the frequent association of spina trear rione of the genital and urinary tracts is well known. In re rewing the embryology the author states that while there is no direct relation ship in the development of the spine and urinary tract there is an intimate relationship between the development of the spine and the spinal and sympa thetic nerves He attributes the pain syndrome to some unknown type of irritat on of the sympathetic plexus innervating the kidner pelvis and ureter and believes that it may be a true neuritis. If this

assumption is correct the treatment of the cortion should be a surgical procedure carned o t with tion should be a surgical procedure carrier of the care not to disturb the normal physiology of the

On the basis of this theory Barbera made a caref.] study of the innersation of the kidnes pel is ind the ureter. He states that the kidney pelvis a d the upper part of the ureter are supplied by period from the renal plexus whereas the lower part of the ureter is supplied from the hi pogastic please

describes the complicated structure and con

parts of both of these plexuses in detail The sensiblity and the motility of the urcteral tract are discussed on the basis of abi innervation. It appears that the treatment condition under consideration should be d rec some interference with the nerve supply \1: methods have been suggested Anasthetic of the splanchnics has been done Section of peduncie of the renal pletus may be perfor Subdiaphragmatic splanchnicotomy has been ommended Tieri has suggested sect in of the r communicantes of the twelfth dorsal first lum and possibly the second lumbar sp nal nerves. E bera believes that the attack should be made at 1 nerve endings 1e in the adventitia of the lide pelvis and ureter. He suggests liberating the pel and ureter from the adventitia by blunt dissection with care to avoid injury of the blood vessel Larger nerve strand encountered in the dissection may be severed This treatment will not disturb the function of the tract

Barbera reports three cases all those of young females in which he performed this operation suc cessfully for relief of the painful pyelo-ureteral syn drome Within a few days after the operation the function of the entire urinary tract was normal according to all tests now known

Samaan K The Pharmacological Bas s of Drug T eatment of Spa m of the Ureter o Bl dder and of Ur teral Stone B / J [ ] 933 1

The author made comparative studies of the effect of paparerin atropin and visammin on the intestine and virgin uterus of the rabbit the ureter of the bull the human wrete and the bladder of the dog As visammin was found superior to papavern and atropin in claring the human ureter it was tried in the treatment of clinical cases of ureteral st re Samaan reports a case in which its use was followed by the passage of two impacted stones The findings of his experiments and his conclusions are sum

Atropin claxes the intestine and the vigin uterus of the abbit the ureter of the bull the human ureter and the bladder of the dog when these tissues are rendered spasmodic by parass mpathetic stim is tion but fails to relax them hen the cause of the

2 In the bladder and the uterus visammin and papaverm are of practically equal value in causing relaxation Relaxation results if the spasm is mediated through the nerve or the muscle or both

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Extirpation of the bladder is a relatively beingn Extirpation of the biander is a relatively benefit operation. Fedoroff reports 17 cases in which it was done with no mortality

The authors report 5 cases in which the ureteros the authors report 5 cases in which the ureverse fomy functioned satisfactorily. One of the patients ded of metastasis and another of coronary embohism but the 3 others were permanently cured. All were operated upon for bladder tumors

# ALBERT F DE GROAT M D

### BLADDER URETHRA AND PENIS Fagerstrom D P lerstrom D P Pertorat on ot the Uninary Bladder by a P lvic Abscess J U of 1913 EE Perforat on, of the Urinary

The author reports a case of chronic parametrial Also author reports a case of curvous parameters abscess at the base of the right broad ligament which auscess at the base of the fight proad against which communicated with the bladder by a circuitous communicated with the business by a circuitous route Closure of the opening into the bladder and drainage of the abscess resulted in complete recovery Also reported is the case of a male who sought treatment for recurrent attacks of pyuna with severe pan and frequency Cystoscopic examina tion recaled a small opening covered by a polyp and communicating with an abscess cavity in the

and communicating with an asserss cavity in the fistulous opening closed Prakhen J. R. Raphial Costs of the Penis (Rhaphe

The author reports two unusual raphial costs of the penis one a mucous cist in the region of the urethral ornice which could not be examined and the other a cyst between the folds of the prepuce which was filled with sebaceous material. The wall of the was turen with senarcous material. The wan of the latter consisted of transitional epithebium in the outer part and of layered pavement epithebium. (metaplasia?) in the deeper part

uccapassary in the deeper part.

According to Marchadier such costs are due to recurring to marchiners such these are the coperations of the double epithelial margin closing the urethra during embry ological development C E JANCEE (Z)

## GENITAL ORGANS

of the Prostate and Scl roses of the Acck of the Bladder (Sur le opérati na end scop ques d'in propettr phie de la prostate et les selé ses du col) A ch d mal d ens 1 d org

The author gives abstracts of articles published in a number of American journals all of which are very enthusiastic regarding endoscopic operations on the

They say that it is not necessary to remove any great amount of prostatic tissue only the part which obstructs the flow of urme need be removed general by the median lobe or the posterior commissire. The technique with the new instruments now available is simple for the urologist who is well trained in en as sumple for the projects who is well transcelled doscop). The treatment can generally be carned

out in one or two sittings. It is very different out in one or two sixtings at the year concerns the old treatment with the galianocautery or e the out treatment with the garranotautery or treatments ; produced foci which readily became infected.

The current used is a high frequency curren A the current used to a might requested current or a coagulating current However the cutting currents coagulate to a centaextent and the coagulating currents cut to a certain extent and the coagulating currents cut to a certain extent. Different forms of apparatus are discussed. Some streeons use the two forms of current score-Sitely having the sources of current and a foot commutator This method which is only an applica tion of the radiobistoury seems to be the most praction of the radioussion; seems to be the most peak tical and the safest. The electrodes vary in shape sometimes they are a mere point and sometimes a sometimes thet, are a mere point and sometimes a loop or a kinde. Most of the results reported are top or a name was to the results represented as a

minor surficed procedure which keeps the patient in bed for only a short time The author believes that the enthusiasm expressed Is premature. His experience has not shown it to be is premature this experience has not shown it to be fusified. For many reasons not the least of which is the possibility of later malignant degenerator prostatectomy is still the treatment of choice in the Cases of patients who are in good condition. The endoscopic operation may be indicated when the Datent is in very Poor condition and radical operation. Is absolutely contra indicated when he is in mediocre Condition and radical operation intoles deducte condition and fauted operation involves sight lesions in the middle lobe or only a sclerous of sugart resums in the minute none or only a surrouse or the neck and when the patient refuses radical opera

ACDREY GOSS MORGAN N'D

## MISCELLANEOUS

Ambard L Stahl J and Auhlmann D tam a and Chlo open a (At time t chi rotzo-Id orga es & o.

Azotæmia has frequently been noted in chloro penia but there are also cases of chloropenia in which it does not occur. In an experiment cained out by the autho s to determine the relationsh p be tween the two conditions a dog was dechloraated by means of a diet poor in salt and by the induction of somiting During the first part of the experiment he was given a soup made of 200 gm of lean meat potatoes bread without sait and about 1 liter of potatures oreat without sait and about 1 met of water In the second part be was given 500 gm of water Au the second part he was given the given meat right in fat and bone and as much water as he wanted To remove the salt f om the body —which a salt poor diet will not do-he was given an injection of 40 3 mgm of bistamin which causes a salty secret on in the stomach and twenty mantes later was gi en apomorphine to make him vomit. The was repeated two or three times a day and he was

The amount of chlorine in the body was deter mined from the chlorine content of the blood plasma The chlo openia or decrease in the amount of chlotine in the body did not affect the animal e we

this remained about the same throughout the experiment. Neither did it affect his appetite. These facts di proved the assertion often made that a deficit of salt in the organism is a cause of anorexia and disturbances of hutrition.

The refractometric index varied I title during the soup diet but yoo distinctly when the meat diet was given. It did not eem to be affected by the chloropens but was a parently influenced by the amount of water in the diet. I he alkali reserve rose as it amount of chlorine fell. The amount of water showing that it was affected by the amount of water showing that it was affected by the amount of water and was affected by the amount of water and water and water and water fell interest but was affected by the amount of the control of the water fell interest albumourna in arotemia, with chloropenia. The authors dog did not have albumourna.

When the d g was in the word of et azotamia as not increased in spite of the marked and prolonged chloropeans. When he was on the meat det more terminable that the more terminable that the more terminable that the more terminable that the more than a so gim. This brings in the question whether the train tion ar terminable more than the more than the

The only definite conclusion the authors are all to draw is that under the conditions of their experiment in which there vise marked I production they do not the great increase in the blood ures which has been reported by others. Vecordingly they believe that there are factors in the problem which are still unknown.

Are as Coss Mor as M D

### SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

#### CONDITIONS OF THE BOYES JOINTS MUSCLES TENDONS ETC

Dyke S.C. Balker R. M. and Freeman E. Adenoma of the Parathyro d. Associated with General zed Ostelt's Fibrosa. La. et. 033 ccx 530.

The authors pre ent a brief discussion of ostestis fibrosa and report two cases in which parathyroid tumors were found and definite improvement in the condition followed removal of the tumors

Of the tumors

kuhns J G Lymphatic Drainage of Joints 4 h

The Irophatu drainage of joints or urs b two channel a deep and a superficial trust. In the lower extremity the deep trust follows, the tempest are not as the content of the superficial fasca, into the popl teal deep femoral and that modes whereas the superficial trust a companies the great suphenous ve in draining into the populates the great suphenous ve in draining into the populate and inguinal trumphatic modes in general these two mains a stems function gornally a separate two mains a stems function gornally a separate for the content of the content

In an attempt to produce a mild arthron in the joint solution of pota sum nodide were injected A britis developed gradually but about two months. There was never any parau formation, and the ero ion of cartilege and destruction of cartilege erols were a fight and uperfacilities the conference of the production of the

The author's indices with regard to the him phanes of the point of rabbits were confirmed by snoval tissue obtained from human points. When no dises of the joints was worked on charel or microscopic examination the lymphatics were readily demonstrated by the use of hydrogen pereside whereas in the present could be found to the property of the prope

In conclusion he says that while we do not eractly know what rife this functional disturbance of the lymphatic vessels plays in arthuris there is evidence that it is an important factor decrease, absorption and preventing the abstement of swe may in the symportan evidence.

PACE C COLONIA MD

Wass light A The Influence of the Verson System on the Healing of Wounds of the Strated Musculature (Leb r den Linfus des ener ystems auf der Hund der Wunden der ergestreuften Muskulatur) 4 h f kl n Chr. 931

The author states that nothing definite a knows as to which parts of the nervous system influence regeneration of the structed musculature. The author to the model of the structed musculature. The part of the muscless may consist of some form of trauma nor of toruc degeneration on enervo. 8. Under the latter stream interest progression takes place at the expense of cells off an embry outcome users it takes place by continuity through the devel most takes place by continuity through the devel most of terminal buds from the off muscle fibers where the connective tissue replacing the defect become penetrated and restored. The development of terminal buds we observed by \(\cap{1}\) olimination search 38 us months after operations.

In one of two series of experiments reported the entire lumboaceral trunk of one side and in the other the scattic femoral and obtuntor nerve were ut successively in a series of operations. In addition a prece of muscle men uring t b) e.s., on ask cut out from the quadroness muscle on book and the control of the control

It was found that a decidedly quicker maturals a of the granulation issue with definite collapsion of the granulation issue with definite collapsion of the granulation issue with definite collapsion of the step of the step of the proposed states and the states are the states and the states are the states

The esult in the second series of experiments with sects in of the secastic and other near series a gaine. The operation had no influence on regeneration. This finding is in agreement with the observations of Kurf Penago Imagava and others who found a change in the response detertical stimulation analogous to that in progressions of the contract of the response of

sive muscle dystrophy only in sympathectomized muscles. However the minutize of the sympathetic innervation depend not upon a single ganglion but upon the very large divisions of the sympathetic nervous system. Depudation of the common that and femoral arteries had no effect on regeneration.

Grisel P and Apert E Congenital Atlo Occipital

Synostosis Report of a Fatal Case (L. synosto occ pit atl die ne e n énitale d'après n e m riel) l' se fél la 1933 ri 397

The authors report the postmortem findings in the case of a child fifteen and a half years of age v ho died four months after the onset of symptoms of inferior bulbar my asthenia. These finding showed that the syndrome was due to rotation and luxation of the is congenital abnormalities were overlooked at the first examination and there was no history of trauma and no evidence of an inflammatory reaction or tuberculosis the luxation was difficult to explain Two years later a more careful study of the occipital bone atlas axis and third and fourth cervical verte bra: disclosed the following anomalies (1) right atlooccupital synostosis (2) left atto occupital synostosis and (1) posterior atto occipital synostesis. These are described in detail with records of the distance and angles

The authors discuss also at considerable length the intra uterine and extra uterine mechan sms con cerned in the production of such anomalies

MARSH W POOLE M D

No 6 Josserand and Pouzet Anatomical and Clinical Considerations Regarding Adolesc nt Cota Vara (C. de t n a t mo-clingues s r is c a d adol nts) L1 h 933 x 189

The authors review twenty three cases of adoles cent coxa va a—twenty which they have followed for some time and three which were seen because of late complications

They state that the lesson is not discovered in the early stages because the early signs are too slight to attract attention to it. The roenigen appearance is that of a sporty shadow i mitted to the juxta epiphy seal region. This typical a perannee of the neef of the femuring present in almost every case whether the symptoms have developed rapidity or slowly

As the condition progresses the neck of the femur becomes curved and shortened. The character of the changes depends omey hat upon the rate of development of the condition

The epiphysis becomes displaced by sli ling off the abnormal neck slowly or quite suddenly as the result of slight trauma

Recovery takes place by calcification In the more rap d type the callus appears quickly

The role of articular lesions in adol scent cota vara is hillicult to determine. In the cases studied by the authors involvement of the jost that apparently are

The anatomical end result ranges from partial restoration of the hip to marked contraction due to almost complete destruction of the head and neck of the femur

The article contains a large number of roent genograms WARSH W POOLF M D

lnge G A L and Ferguson A B Surgery of the Sesamoid Bones of the Great I oe An Anatom ical and Clinical Study with a Report of Forty One Cases 1 ch S rg 1933 xx 1 466

The authors discuss the anatomy and pathology of esamoid bones of the great toe and review the findings of a study of over 1 000 roentgenograms of the feet the history of the surgery of sesamoid bones of the great tee and the reports of 41 cases in which sesamoidectomy was done at the New York Or thopsetic Hospital

They state that the sesamoids of the great toe are essential parts of the skeleton appearing early in fetal life. Bipartite sesamoid is a frequent anomally being found in 10.7 per cent of the feet examined.

roentgenologically in their clinic

Among the illustrations in the article is a diagram of the most common anomalies. Attention is called to the variations which are responsible for the most frequent fractures of sesamoid bones. In the cases reviewed only i positive sesamoid fracture was found. In no case was specific disease of the serimoid discovered. The authors attribute pain in the region of the sesamoid to (1) associated chronic region of the sesamoid to (1) associated chronic region of the sesamoid to (1) associated chronic region of the properties of the sesamoid for the region of the common of the region of the sesamoid following an operation for busing.

Of the 41 patients whose cases are reviewed 70 8 per cent were benefited by the sesamoidectomy. For the best results the operation should be supple mented by physical therapy.

The authors reserve operative treatment for cases which fail to respond to conservative treatment ROBERT C LOVERGAY M.D.

#### SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

W ber L A The Treatment of Pollomyelitis Sequelæ in the Foot (11 tratament de las se uet p 1 melit t del pie) Rem d top y 1 1 1 933 373

Weber reviews fifteen cases of poliomyelitic de form ties of the foot and discusses the examination of the effected foot the general principles of treat ment the types of deformities their treatment and the en1 results obtained in each and the prevention of poliomyelitic deformities.

He concludes that surgical intervention should be resorted to only after an interval of three years from the onset of the paralysis and never in the cases of children under six years of age. The combination of therapeutic procedures must be determined for each case. Plastic operations on the tendon of Achilles muscle transplantation arthroplasty and Achilles muscle transplantation arthroplasty and

tenodesis are of great value in combination but separately are sufficient to correct the deformity in only a few cases Brilliant results are obtained by arthrodesis However as the is an upphysiological procedure it should be employed only when correction by other means is impossible. For drop-foot tenodesis combined with arthroplasty is better in principle than multiple arthrodeses, but should not be performed on children under fifteen years of age In talines calcaneus oblig e osteotomi is an ex cellent method of correction. As tarsectoms and astragalectomy are mutilating operations they should be limited to severe and persy tent deform

The article contains a large number of illustra tions and has an extensive bibliography M E Morse M.D.

Strombeck J P Hallux Ripidus and Its Treat ment (Hallus produs und seine Febandlung) 4da ch rg Sea d 1933 lxxu 33 Following a review of the literature on hallur

mendus the author reports twenty three cases The chief symptoms of ballux randos-huntation of dorsal flexion in the basal joint of the big toe-is caused by contracture of the short flexor with subsequent plantar contracture of the soft parts. The contracture is a common complication of arthritis of the basal joint of the big toe. The arthritis may be regarded as a consequen e of excessive we ght bear ing and occurs in the presence of certain anomal es of the foot skeleton. It leads to early deformities which can be seen on roentgen examination. The contracture is not of great importance in the production of artbritis deformans

In the treatment of some of the author's cases re mo al of the dorsal exostost was sufficient. In mild cases good results vere obtained by tenotoms of the short flexors and in more severe cases by basal resection of from one fifth to one half of the basal phalanx and the interposition of fascia Ankylosing operations should be avoided

#### FRACTURES AND DISLOCATIONS

Helistad us A A Clinical Study of the Causat on of Pseuda throsis of the Diaphyses of the Long Bones of the Extremities Late the u g Sc d ross bram r

The author reports a chin cal study to determine the cau es of pseudarthrosis after fractures of the shafts of the long bones of the extremities. In cases of multiple fractures the umon of several of the fractures was obviously inhibited a fact suggesting that in cases of pseudarthrosis there is a general pred sposition toward poor callus formation

In discu sing double pseudarthrosis after frac tures of both bones of the forearm the author e rects the theory of Martin that by some distant in fluence (sympathetic bone atrophy) a pseudarthrosis of the radius may favo the formation of a p endarthro is of the ulna. He behaves that such pseudarthroses are determined by the same lactors as those determining other multiple pseudarth our. He states that there is no evidence that pseudar throses are favored by a deficiency in Vitamin C Cases are cated to show the exceedingly st ;

tendency toward p eudarthros s in children as tom I statistical study of the sites of oscudarthroses in

the shafts of the long bones in relation to the arteral supply of the bones suggested that the arteral s.p. ply may play a part in the production of pseudic

throses

pared with adults

In the author's cases pseudarthrosis was most common after communuted fractures and next mort common after transverse fractures. After other and spiral fractures it was uncommon. Its incidence was 7 per cent in cases of compound fractures 24 per cent in cases of simple fracture treated by operation and o 23 per cent in cases of simple fractures teduced manually

Hæmatoma formation may be of some importance

in the formation of callus by reason of its stimulating effect on the fracture hyperemia

Pseudarthro is has occurred with considerable frequency to cases of fractures treated by talay graft ing with the use of horn or mary pegs or bone grafts. Whether or not a teasynthesis with metallic ma terral has an unfavorable effect on the union of fractures cannot be stated with certainty

P endarthrosis is considerably more frequen in cases of fracture operated upon during the first three days after the accident than in those operated upon later This i probably explained by the fact that during the first few days there is not sufficient time for the hamatoma to evert a stimulating elect on the fracture hyperzenus and vascular prolifera tron

As the majority of pseudarthry es occur after fractures caused by direct external violence lacers tion of the surrounding soft parts seems to be a fac tor in their cau ation. In some cases pseudarthroes may be favored by separation of the fragments in treatment by extension Incomplete immobiliza tion of the fracture seems to have an unfa ora effect on union only in its later stages in cases of delayed consolidation

Boehler L The Causes and Pre ention of Poor Heal ng of Bone Fractu es (De Ursachen d't schlecht geheilten Knochenbru he und ihre te Zi h f orth p Ch 1933 1 11 3 4

According to statistics published by Ruetz in 1019 permanent compensation was being received by all of 47 persons 1th a fracture of the femur 82 (0) per centl of 86 with fractures of the bones of the leg 41 (91 per cent) of 41 with a fracture of the ankle 30 (9 per cent) of 3 with a fracture of the humerus 37 (50 per c ...) of 41 with a fracture of bones of the forearm and o (82 per cent) of 11 with a typical fracture of the radius

The injured ere treated under very unfavo able external conditions. The poor results were due to

(1) deficient instruction (2) deficient organization and (3) the use of unsuitable methods of treatment

The essentials of treatment in all cases are (1) accurate reduction of the bony fragments (2) min terrupted fixation of the properly reduced fragments until bony healing has taken place (3) during the time of the necessary immobilization of the properly reduced fragments active movement of as many as possible or of all joints of the injured extremity and of the whole body with avoidance of pain in order to prevent disturbances of the circulation atrophy of muscles and bones and stiffening of joints.

One of the following four methods of treatment is indicated depending upon the time that has alapsed since the fracture (1) immobilizing treatment 1 te treatment with splints or different types of bandages or other firm material (3) treatment with permanent traction by various adhesive substances (adhesive plaster or mastisol) or directly to the bone (nail clamps wire) (3) mobilizing treatment (eatly massage and passive movements) and (4) operative

treatment

The simplest and safest treatment is immobilization with spinits or phister of Paris. Most disturbances can be avoided if the fragments are accuratelyreduced and held firmly in unpadde; plaster dressings without interruption until bony union is obtained. Treatment in the artaction bandage is to be considered chiefly for fractures which cannot beheld in a plaster of I am dressing such as those of the fenur. Mobilizing treatment can be used only for fractures without splining.

Inducetly measures promoting the formation of callus are the cause of poor healing of fractures since confidence in the callus formation causes immobilization to be discontinued too early. Necessary for call its formation are (i) the stimulation provided by the injury to the bone (2) a sufficient blood supply and (3) sufficiently long uninterrupted immobilization of the property reduced booy fragments.

One part of the article is devoted to fractures of the pine A fractured vertebra may be firmly united in from six to eight weeks without reduction and in from three to four months with reduction this length of time a plaster of Paris cor et is not only superfluous but harmful The Bochum school has shown that after spinal injuries thout paralysis the patient may get up at the end of six weeks and usually may begin light work after from three to four months. This school rejects not only the late corset but also rejuction with sub equent immobil zation and simultaneous treatment of the rest of the body by ex roise. The reduction of a vertebral fracture under local anasthesia is very easy good position can be retained with the aid of a plaster-of I aris corset kept on for fr in three to four months. The patient can get up after eight days The muscles do not become weak or the spinal col um's still is causes of poor healing of bone frac

tures the author h ts failure to reduce too long rest

in bed and the wearing of a supports e corset after

ben consolilation

Fractures of the pelvis without other injuries are benign Those with central dislocation of the head of the femur are treated with a continuous traction bandage for from ten to twelve weeks Fractures of the neck of the femur heal with pseudarthro is coxa vara becaule they are not reduced. The fragments can be held firmly in good position only with a large plaster-of I aris dressing or with a nail by the Smith letersen method Fractures of the femur through the trochanter with wedgin, heal with coxa vara and outward rotation if they are not reduced and treated with an extension bandage for from ten to twelve weeks Fractures of the shaft of the femur often heal with shortening and curvature. Sometimes also a pseudarthrosis occurs becau e the immobilizing dressings (plaster of Paris or continuous traction)

are removed too early Latients with fracture of the patella athout dis placement ran get up at the end of a few days wear ing a plaster of Paris shell I atellar fractures with diastasis can be healed only by operation Fractures of the eminentia intercondyloidea can be properly reduced under local anasthesia and vill heal if a plaster of Paris dressing is applied for from six to eight weeks and the patient is allo ed to walk in it Fractures of the head of the femur should be treated with strong traction and immobilization of the reduced fragments for from six to eight veeks. Fric tures of the shafts of the bones of the leg heal poorly when the period of immobilization is too short Good reduction and sufficiently long immobilization (at least ten weeks in cases of trans erse fractures) assure a good result Fracture of the ankle vith subluxation heal in an unpadded plaster of Paris dressing in from seven to ten weeks. Fractures of the astragalus the heel and the ta sus vill heal in from eight to twel e weeks when properly reduced and immobilized for a sufficient length of time. In fractures of the met tarsal bones at elling of the foot occurs if the bones are not immobilized but if an ambulatory plaster of laris cast 1 at plied the pa tient is able to walk at once vithout pain

Fractures of the classicle should be treated without a dressing Fractures of the humerus must be treated with abduction spl nits. Supracondiviar fractures of the humerus are easily reduced by strong traction with pronation of the forearm and are retained in good posit in big firm bandgaing. Fractures of the shafts of the forearm boness ill heal ellif they areacturately reduced and the fragments are held securely with wries jassed through hole bored in the bones and immobilized for a soff central long time (from a foreast) and the state of the st

In conclusion the author says that in the pre-ention of poor healing of fractures much could be accompile hed if only a fraction of the money paid for after treatment were used for the first care and after treatment of my irms. When the economic imafter treatment of my irms. When the economic importance of accid ats becomes more generally recog nized there will be a change in the instruction given students and general practitioners. Minor urrery and the prevention of wound infection are of great importance. In Austria 1 375 persons died in 1931 from infection after wounds received in accidents and many times that number had their earning ability markedly and permanently reduced by phlegmons The number of hospital beds for the treatment of fractures must be increas d Where bone fractures are treated a roentgen apparatus must be available in the operating room or adja ent to it HAUMANN (Z)

D Francesco F Th Treatment of Complete Acromioclaricular D slocation /Su a terap a della lussa, one completa acromio-clay c lare) Pol K me 1013 Is chr 250

The author reports a case of complete acromicclavicular dislocation in a woman forty five years of age which he treated by a modification of the Benedetti Valenti method In the operation the bone are fixed in place by passing a 3 mm strip of elastic rubber between the coracoid proce s and the clay the in the form of a figure of ei ht to re inforce the weakened and relaxed coronoid and trapezoid ligaments The cond tions in a case before and thirty days after the on ration are shown by illustrations

In experiments carried out on two dogs and four rabbits De Francesco found that the rubber band vas still elastic eight months after the operation although it was then vell covered by connective EUGENE T LEDDY M D tissue

Thompson J E Fractures of th Carpai \avicular and Tr qu trum Bones 1m J 5 te 1013 xxx

Of twenty one fra tures of carpal bones seen at the Roosevelt Ho pital New York during a period of twelve months fifteen invol ed the navicular bone four the triquetrum and two both of these bones As the ordinary anteroposterior and lateral roentgenograms frequently failed to show a frac ture the author recommends that oblique roent genograms be made in all suspicious cases

In the cases reviewed the triquetrum was usually fractured in its mid portion while the navicular hone was fractured either through the tuberosity or

through the neck of the body

Thompson believes that non union is fa ored by abnormal friction between the fractured fragments rather than by defic ency of the local blood supply He recommends prolonged immobilization by means of a dorsal moulded cock up plaster splint

PACE C COLONNA M D

Wh tman R The Abduction Method im J S £ 1933 \$ 1 135

Whitman says that according to statistics from a variety of sources union of medial fracture of the lemur occurs in approximately 65 per cent of cases treated by he abduction method. For cases in which faulty treatment has been employed he recommends open operation and for those showing incapacity for repair be suggests the Whitman reconstruction one ation The latter consists in removal of the distorted head moulds g of the remaining portion of the neck and transplantation of the trochanter with its attached m scles down the shalt

Methods of spraing the fragments such as the use of the flanged nail advocated by Smith Petersen are rejected by Whitman as he believes that re covery depend on reconstruction of the bony struture and this will be retarded by the injury to the cancellous tissue caused by the introduction of a nail He is of the opinion that many months are re quired for the repair of a medial fracture and doubts whether any form of operative intervention will greatly shorten the period of disability

He states that the abduction method relieves the pain permits changes of posture and has not only greatly extended the range of the positive treatment of fractures but has materially reduced the death ROBERT C LONESGAN M.D.

M kkelsen O Intra Articular Fractures of the Upper End of the Tibia A toth ru r S a d 10th er m r

This article is based on 160 cases of intra articular fracture of the upper end of the tib a which were treated at the Fommunehospital Copenhagen and 88 cases from the records of the Committee of Labor In urance

Of the 160 patients treated at the Kommune ho pital 1 6 were re examined from one to nineteen years after the accident. Of those whose cases are recorded by the Workmen's Compensation Board 22 were re-examined from two to five years after the accident and the others one year after the accident The fractures are classified as follows

A Unicondy load fractures

Incomplete (a) fissures (6) (b) compression Complete (a) median (51) (b) lateral (116) B Becondylord fractures (a) I and I frac tures (15) (b) T fractures (16) (c) communuted

C Fractures of the tibial spine (18)

D Other (rare) forms (q)

fractures (x)

The figures in parentheses indicate the number of cases in the group or subgroup

The proportional distribution of the cases in the various group is about the same except that the severe b condyloid and comminuted fractures were six times mor frequent in the Kommunehospital cases than in the Workmen's Compensation Board cases

The mechanism and etiology of the various types of fracture are discussed. Only the treatment given in the Kommuneho pital cases is mentioned. In this hospital conservati e treatment is employed in the great majority of cases operation being performed only in a ery few instances

Chief among the conservative measures are mas

sage and motion. If there i marked bamarthrous,

ouncture is done first. If there is no varus or valgus position and only a slight abnormal lateral mobility the knee is placed on a knee pillow but otherwise is left free When lateral mobility is di tinct a roll pillo is used The roll pillow (a sort of splint pillow) is a closely stitched quilt 2 cm thick which mea ures 60 by 60 cm It is folled around the leg and fi ed with a pieces of tape. In the Kommuneho pital it is used frequently also in the treatment of cases of malleolar fracture and fracture of the shaft of the tibia. In such cases the leg strapped in the roll p llow is placed on a high hard stuffe! triang lar mattres so that the knee is kept in nearly rectangu lar texion a position which is not uncomfortable The use of this pillow makes it possible to institute treatment by massage an i passive motion at once and allows easy inspection of the ite of fracture at any time. In most cases it is sufficient for the correction of a varus or valous position but sometimes these positions require additional side traction Cases with more marked dislocation with or without shortening are treated by in lirect I ngitudinal extens on sometimes combined with lateral traction Direct extension is not a lyisable as it gi es n e to stretching of the ligaments aroun I the knee which results in a greater tendency toward lateral mibil ty Operation 1 performed only in marked dislocation

Operation: performed only in marked disl scatton of unicondyloid fractures. In bicondyloid fractures the best results are obtained by conservative treat ment. The patient is kept in bed for eight, eeks at least and longer if a def nite degree of lateral mol il.

ity still remains. When begins the trensing all ually made accustomed to carry; gith we have body

Complete recovery witho and since the religious contents of contents of the religious contents o

The enormous difference in the result in the a groups cannot have been due entire to pay bed; ferences of treatment. If me he accounted for in part at least by the hope of note that most of the hommunchosynth spitiants with the fact that most of the kommunchosynth spitiants when years are turning to work were those who were I are for entitled to compressation.

The prognoss is considerable better than was formerly supposed as of 136 patients received it; are completely able to note and off. 13 who are parth disabled several have taken up their old work again with merely some all hir roof culture. True secondary arithmits deformans was found in oil 10 are

### SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Jausion H Glycerin Chromate for the Scle osis of Varicose Veins (Glycerine chromée et scl. r. e de ectasies euse) P rie méd Par 1933 xh 1961

Jausson befeeves that when givenn 15 used as a vehicle for some other substance such as phenol in the treatment of variouse veins it is the givenn which produces the venous ederous. The only dis advantage of the use of givenn is the production of hemoritac, particularly into the kidney paren chyma. This may be prevented by the addition of chrome alom.

The formula for the sclerosing fluid used by the author is as follows

Ga.

Clyrenne (double distilled) 125
Chrome alum 15
Distilled water 200

At each treatment from 5 to 20 cm of this solution are myected forcible. A tournquet is used to d stend the vent and prevent leakage of the solution. The myections are separated by an internal of eight days Of 313 cases of various vents 232 were curred by 4 or fewer injections 32 required 5 upsections 21 required 6 and the rentander required, or more The add antages of the glovern chromate misture

are stated to be
2 Freedom from slough after accidental extra

vasation of the solution
2 The obliteration of extens ve varices with few intection

3 Absence of pain during the injection

The author says that the occurrence of lumbar pain and vesical tenesmus (apparently indicating renal damage) is very tate and may be attributed to idiosyncrasy to the drug

The injection of hæmorthoid varicocele the bubos of lymphogranuloma ingu nale and venereal warts is described Herman E Pearse VI D

Mahorner II R and Ochsner A Leeches in Phiebiti to Pre ent Pulmonary Embolism 1 π S rg 1933 xc m 408

Pulmonary, ersbolian resulting from postoperature thromobyhlebius accounts for approximately or per cent of deaths after operation. The authors discuss brufts some of the resistants that he cheen used to prevent or treat thromboghlebius. They summarize the results of the results of the summarize the results of the resul

In the fir t case reported by the authors the treat ment was without effect probably because the

number of leeches was madequate. In the three other cases it resulted in rapid abatement of the symptoms and apparently hastened recovery

The authors outline the technique of the apple and of feeches and discus a few various theories it regard to the rationale of the treatment. There are the the rationale of the treatment is regard to the rationale of the treatment. There are the the strong of the possibility of feech treatment of the possibility of feech treatment or the possibility of feech treatment or the possibility of the possibility of feech treatment or the possibility of t

Perazzo G The Lascular Gangrenes of the Upper Limbs from Cercocal Ribs (Le gangre schur d ll to up rore da costols or ricale) Ch d go 1 d m m 110 1031 grun 2

The author reviews the classification and the em bryological development of cervical ribs. To the twenty four cases of vascular gangrene of the hand or arm which he was able to find in the l terature be adds a case of he own that of a thirty nine vest-old woman with evanosis and gangrene of the left arm below the elbow. In this case no radial or ulnur pul sations were found \ ray examinat on disclosed bilateral ce vical ribs the left much larg t than the right. The arm was amputated in the middle third Th lumen of the humeral artery was found dimin 1 hed by thrombs but the intima and elasts fibers were not affected. The media was infiltrated with fat granules The nerves were undergo ng a descend ing wallerian degeneration. Perazzo bel eves that both the mechanical and neurosympathetic factors contributed to the production of the gangrene

P F METICAL MD

Traina Rao 6. The Behavior and Pathogen Importance of the Blood Platelets in Thrombophile this is 10 importaneous il important price that dip price is a dip price to be trombophile that the dip since in the since it is a since in the since

The author belt was that there are bosternal and non-bacternal types of thrombophide but the land constituting particularly the group of the constitution particularly the group B determined by the constitution of the constitut

infection. In cases of puerperal thrombophlebits he found the same parallelism. He believes that a high platelet count is a factor predisposing to aseptic thrombophlebits. He therefore advocates a routine pre-operative platelet count to determine the danger of this complication.

The use of leeches was found to be the prophylactic procedure to influence the thrombocy tosi and the best form of treatment in the early stages of ascentic thrombophilebit P. F. Meriant M.D.

Rabinowitz H M Newer Concepts on the Pi ysio pathology and Treatment of Thrombo Ang itis Obl terans An J St g 1932 xx1 260

Because of the importance of certain phospho limid in the coagulation of blood it occurred to the author that changes in the metabolism of this group m tht be associated with the thrombotic tendency in thrombo angutis obliterans. In the cases of twenty five normal males h found that the lecithin (plosphoru) of the whole blood ranged from 8 to 11 8 mgm per 100 ccm and the morning urine was ne ative for choline whereas in fift cases of thrombo anguitis obliterans the lecithin in the whole blood ranged from 7 to 15 mgm per 100 c cm and in thirty of these fifty the morning urine as strongly positive for choline on one or more occasions Lighty six per cent of the patients with thromboangutis obliterans showed at least once a blood legithin above the highest value determined for the twenty five normal controls. In these patients the excretion of choline in the urine seemed to be associated with the lower or normal values of blood lecithin and as frequently absent then the lecthin level was high. The author concluded that an increased metabolism of lecithin re ults in an in crease in the chol pe in the blood and consequently 11 the excretion of choline in the urine

On the basis of the assumption that the choline derivatives upposedly formed in excess from les this in the body might be the deleterious agents in thrombo angutis obliterans Rab nowitz treated cases of thrombo angutis obliterans by reducing the lecithin content of the diet and administering cho lesterol a physiological antagoni t of lecithin Cholesterol injected int amuscula ly appea ed to dimin h the pain but d d not have a fa orable in fluence on the thrombotic tendency. After much experimenting choline and its derivatives found to be easily converted by a tivate I sulphur into non toxic compounds. Therefo e in cases treated later activated sulphur was injected intra venously for t o months. In a ldition lecithin rich foods were excluded from the liet. Under this regime the pain rapidly s baided and trophic lesions promptly impro ed In late case ho ever the rubo i as not lost. The last symptom to di appear was laudicat on In the ad anced gangrenous stages the re ults were unusually favorable healing being obtained after minimal los of ti sue. The author reports the cases of three young men who retained good functioning stumps at the metatarso

phalangeal junctions When arteriosclerotic changes were associated with thrombo anguitis obliterans the prognosis was not good In four such cases high amputation was necessary

"I I MERLE SCOTT MD

Danzis M Arterial Embolectomy is S a

The literature of arterial emboli m i very extensively reviewed and the etiology prognosis and treatment of the condition are discussed. Considerable space i devoted to the difficulty of evaluating results.

The author has collected 120 cases of arternal em bolism. One hundrel and nineteen were operated upon (4 bv Danzi). The results were much better in these than in the o case in which of cration was not performed.

It is pointed out that in a high percentage of the case there is severe cardiac damage. Of the cases reviewed card as damage is a present in 60 per cent. Thent's to a per cent of the patients suffered from such condition as arteriosclerosis diabetes sphilis and thy rotourosis. It is particularly important to recognize the fact that arterial embol in a not an uncommon complication of thy rot disease.

The high death rate in this group of case is due undoubtedly not to surgical treatment but to the underlying severe cardiac damage or periperal vascular disease.

The author describe his operative procedure which is based primarily on the ork of Carrel However he uses a 2 per cent is dium citrate solution instead of oil to pre ent clotting. He prefers local anaestle east for the operation. If this is impossible he employs sonal anysthesia

The article includes abstra to 0 th, 10 case reports. You'd, of these cases sho is very clearly that the condition is usually not recognized or operated upon sufficiently earl. The author stresses the importance of teaching the medical profession that the results of operation are dependent directly upon the time which clap is between the occurrence of the eribbol sm and the operation. Although in some cases of emboli m of the large arteries recovery many occurs prontineously it has been deminted on the continuous of the continuous co

#### BLOOD TRANSFUSION

Gejnac S Observation on Blood Transfusion in Surgical I ract ce (Be bacht n n eber die Bl ti nst ler clum gi he P 2 s) Uk

Z K j i Ug p 93 7

If satticle 1 b ed n the con iction that blood tran fusion is not employ el sufficiently often in the Sov et Union and that propaganda on the part of the government is necessary. Laticularly in compartion with statistics of American surgeons who are cited the total of 4 000 blood tr nisfusions in

eleven years in the entire Soviet Union seems very mall The author reports on 180 blood transfus ons in the cases of 138 patients. The quantity of blood transfused varied from 200 to 1 000 c.cm and av eraged about 600 c.cm For blood grouping 3 standard sera O A and I were used No error oc curred in a period of four years. Brief directions for preparing such standard sera are given. Oehlecker s method of transfusion was used 3 times and the citrate method 1 times The technique which 1 described in detail contains nothing new For the systematic use of transfusion the organization of donors 1 an important prerequisite. Several donors have given blood as often as 12 times in one year It is noteworthy that the donors were given sick certificates in only exceptional cases Regeneration supposed to be accelerated by workin, and requires thirty five days. The author urges that the State provide means for the donors

Blood transfusion was employed for acute and chronic hamorrhage postoperative shock cholamia and suppurative septic processes and for prophy laxis before senous operations. The hamourhages were chiefly gastric hæmorrhages particularly post operative ga tric hæmorrhages Transfusions were given also before operation. In addition to blood replacement tran fus on has a harmostatic action However in hamorrhagic diatheses the result of transfusion is not very satisfactors. Patients with posthemorrhame anamia recovered relatively rapidly after tran fusion. Blood transfusion is of great value in po toperative shock, even when the shock 1 not due to hemorrhage. In 27 ca. es of shock some of which were very severe only a patient could not be saved Blood transfu ion is considered the most effective and rel able mea, ure for combating the fall in blood pressure the capillary stasis and the acidosis which must be overcome in shock 'even hun dred cubic centimeters of blood must be given Smaller quantities are meffective. In the cases of cholæmic patients pre-operati e transfusion i of The importance of great value for hamostasi prophylactic transfu ion before eriou overations, e pecially laparotomies is manifested by the lower mortality in cales in which such transfusion are A particularly extensi e expenence with gastric resection i presented some of the literature concerning the effects of transfu ion in sentic diseases is still very contradictory The author reports 6 cases of chronic septicopy min in which blood trans fusion resulted in immediate and striking impro ement. In cases of acute septic processes no improve-GET TERK F SCHOLIFE IC ment was noted

Balachowsky S. Guenzburg F., Paleyna, T., Ricchina S. and Farbero a R. The Preservation of Blood for Transfusion (Reuseryvon Blut sweeks Transfusia desselven) Servaproly for kern Frank 193 to 1 17

Extensive laboratory tudies were made to solve various problems associated with the preservation of blood.

The first part of this article deals with the disclopment of methods of preservation. The study of the beginning stages of congulation of circuit blood let on the study of the the stage and the study of circuit of the study of the s

In the second part of the report the changes in the blood from citration and dilution (1.4) are discussed. The resistance of the erythrocytes in the blood of dogs was scarcely altered during the first two or three days of preservation, but gradually diminited when the blood was kept for a longer period. The variations in the residual non protein nitrogen and in refraction were insignificant, and the rate of sedmentation in the course of one and three hours varied but hightly with the duration of preservation. Catalyais showed only slight changes. Active giv. column occurred in the diluted preserved blood. The content of morganic pho phorus rose somewhat, and the sugar content fell. No definite increase in unc acid could be demonstrated. A loss in the ability to fix oxygen was noted in the enythrocytes of preserved blood.

The third part of the report deals with the ractions of the organism to the translution of preserved blood. Thes gar and chloride contents of the blood and the rate of sedimentation of the crythrovites were determined before the translusion and twenty minutes and one hour after the transfer on. The results did not permit definite condi-cons-

The authors describe in detail their methods of preparing keep— and transfusing present blood. The blood is drawn into a sterile vised are combined with an equal amount of a mitter one sating, of one part of the period of a mitter to thou and nime parts of physiological sails to the mitter is kept at a temperature of +4 degrees. The a ties believe that the results device destrict upon careful preservation of seepas and absol to punts of the retreets.

Bel G Complications During and After Blood Transfusion K mplksh on watered and such d R transfer Them. 2 F o Ural

On the basic abort 1 on blod training as the query 1 we starf premium of one Dation are accessed. In the communities of the Dation are accessed. In the communities of one of the training provides a first land at training training to provide a training to the training training training to the training training training to the training training training the training train

reaction, was considerably lower when the citrate method was employed. In each series of cases there was I death

Of most importance in the prevention of complications is careful selection of the donor must be free from transferable disease. Group similarity, i desirable but universal donors may be used. The determination of the group must be made care fully. The details of the technique are discussed. Control tests should be carried out. Even suit group compatibility and a favorable outcome of the control tests should be carried out. Even suit group compatibility and a favorable outcome of the control tests biological incompatibility of the blood is sometimes found. The cau of the resulting equilibrium? Leucotouns?) To prevent it Oeblect equilibrium? Leucotouns?) To prevent it Oeblect ex biological preliminary test (the injection of about to c em of the donor s blood before the main transfusion) is just pensible.

The reaction to the blood transfusion depends al o to a great extent on the di ease present. In severe

blood disease hæmophilia pernicious anigmia and sepsis sector complications develop more frequently and the quantities of blood transfused must not be too large I acute anigmas on the other hand large amounts of blood are well tolerated after sud den hæmorthages. The grave complications chilis circulator, collapse unconsciousness hæmoglobinu an and anigma always of evelop immediatel wifer the transfusion. The delayed reaction such that the transfusion of the delayed reaction such a transfusion of the delayed reaction such that the transfusion of the delayed reaction such that the transfusion of the delayed reaction such that the transfusion of the delayed reaction such as the delayed reaction of the delayed reaction such as the delayed reaction of the delayed reac

Blood transfusion should be undertaken only on specific indications. If these are established complications may be prevented if their nature and possibilities are known. In no case should this important therapeutic measure be rejected when proper treatment will prevent complications.

SCHWALM (G)

#### SURGICAL TECHNIQUE

#### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Semb C. and Berg A Res arches on Blood Pres sure After Abdominal Operations Acts k a S nd 1933 lxnm Supp xxvi

The behavior of the blood pressure after abdomanal operations was investigated b daily measure ments of the day pressure (presumptive maximum in the waking state) and the noht pressure (pre-

sumptive minimum during sleep!

In studies of the day pres ure made in the ca es of 314 patients and including about 1 800 measure ments it was found that about 34 per cent of the patients showed a relativel, unchain ed p essure curve about 60 per cent a primary is en the pressure during the next days after the operation and about 60 per cent a primary fall. Some of them showed a secondary restitute fall after the primary cannot be secondary to the fall after the primary cannot be secondary to the fall after the primary cannot be secondary to the fall after the primary cannot be secondary to the fall after the primary cannot be secondary to the fall after the primary cannot be secondary to the fall after the primary cannot be secondary to the fall after the primary cannot be secondary to the secondary to the fall after the primary cannot be secondary to the s

The blood pre sure during sleep which was de termined by about 300 mea urements in the cases of 45 patients showed in even case a rile above the normal in the first days after the operation. There fore the normal fall in the night pressure failed in

more or less degree to occur

The relation between the day pressure and night pressure was therefore puthologically altered the diffe ence bety ere these pressures becoming smaller or disappearing alto ether. The curve for day and night pressures combined represent the total blood pressure reaction which has a relatively hard tensification. The total blood pressure reaction which has a relatively hard tensification that the district of the

The cases without complications beforehand showed the greatest tendency toward a rie in the ni ht pressure and the complicated cases a greater tendency toward a fall in the day pressure after the

operation.

The total blood pressure react on showed some relation to potoperative interland disturbances. A rise in Dood pressure e-pecully in the might pressure control more of less parallel with impairment of in testinal function. A immar reaction was ob eread also in case of mechan call levis and performing testinal paralla. So The relation to other postopera tree complications in also discussed.

The bood pressue conditions noted can be compared in some degree to the changes which Michler found in hyperconducted distinuous comp. Their are removed as an errorson of a circulatory in conduction distinuous conductions of the contraction of the conduction o The author assumes the cause to be vasomotor in fluences e-pecially venous stasis in the syem circulation especially in the planchnic circulation

Fine J and Lerenson W S The Effect of Foods on Postoperative D stention & M J S 11 931 II & 81

From experimental ob envations the authors or clude that in the absence of food the only important cau e of gaseous di tention of the intestine; swil lowed air. These believes the to be true tene the the circulation of the intestine is swilled the their experiments show that highed carboh draftes are a pa ticularly important source of distend agases. The food which are most prome to cause exceed the entire of the control of the conceives the entire of the control of the conant foods not in criticise.

With rees d to the treatment of di tenton the authors state that the nece it of admin terng liquids and carboh drates in the immediate pot operative pendo can be met by the parter end administration of glucose solutions. For the stimular to an of pen tal. 1 then admin the u eo of emmodidor solud food such as tea t cooked ce eal, and e albumen 19th. H. Gulacer. W D.

#### ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Pearl F L Electric Shock Presentation of Cases
and a Rev w of the Literature 4 & S (

It is probable that in the case of the higher animals death from electric shock is due as a rule to primary abrillation of the ventricles. In man their condition beople'sis unless prompt and here treatment is in trutted. Postmortem finding his to explain death from electricity. Chang is in the wall of the ve els are notice it. Whost of the pathological changes are probably due to bet

rather than electroly si

The treatment of electrically induced ladure of the e-p ration cuter is a rifical respiration in the prone pires are method until breathing is recitable hed or death is certain. The treatment of electrically indicate the results of electrically indicate the results of electrically indicated in the results of electrically indicated in the electrical indicated in th

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even collected ca es death occurred despite its u e under ideal conditions over long period of time Stimulating hypodermics inhalations of pure or; gen and countershock are not advised. Inhalation of carbogen is a valuable aid to artificial respiration In certain case lumbar functure has a definite Electric burns may be place in the treatment treated b rad ant and ultraviolet irradiation. In se ereburns the use of ointments and dusting powders is not advi able. In a few cases immediate debride ment and skin grafting ha e been succe sful Surgery should be employed with caution

The sequely of electric shock are many and varied The mo t important affect the skeletal and nervous ION H G RLOCK M D system

#### AN ÆSTHESIA

Moerl F Death in E ipan \arcosis (Todesf ll in I ip n \ l ) Z talbl f Chr 933 p 877

Evipan sodium 1 of value not only because it is rapidly broken down in the body and has only a slight affinity for the vital centers of the medulia but al o because it has wide therapeutic uses. In e p riments on animals the lethal do e is from three a da half to four t mes the therapeutic dose \ever erious symptoms and deaths following the use of the drug are being reported (Baucker Reschke Petermann Doedetlein and Joseph) All such sequeize should be studied in order that the contra indications to e apan sodium may be deter

mined and it dangers eliminated

The author reports a sudden death under evipan narco is which occurred with symptoms of card ac paralysi. The patient vas a man eventy five years of age ho presented the t pical syndrome of ad anced sende atherosclerosi He was also suffering from pulmonary emphysema mild diabetes and henatic cirrhosi but Moerl regards these complica t on as of I tile importance in the effects of the anasti etic as the death was definitely a cardiac death. He emphasizes that in the cases of potients with severe circulatory disturbances especially cir culatory di turbances of a toxic natu e great care is

neces ary in the use of evipan sodium

In the case of a person 1th a body veight of oo kgm ooo cem of e pan per kilogram (a total of 8 c cm according to the re-ommendations of specht) was njected without a preliminary narcotic sleep vas induced mmediately. Three minutes later death threatened suddenly Ten cubic centi mete of coramin ard r c cm of lobelin ere gr en ntravenously at once but after a fe sec nd re pi rat n and the heart stopped Art ficial respiration and the ntrac rdiac administration of corn of cassem and adrenalm were vithout effect autops, ar embol sm and fat embolism were ex cluded The internal organs showed the changes of advanced atherosclerosis. Although the amount of evipan injected as 2 c cm less than that recom mended by the manufacturer of the drug the dose was too large f this particular patient

In conclusion the author says that the doses recommended by Spe ht usually produce a too pro tracted and often undesirably deep narco is instead of a rausch or brief narcosis and are too large for old and debilitated patients The difficulties in the dos age are the same as those in the use of avertin. The deciding factor with regard to the dose to be em ployed in a given case seems to be the experience of ERICH HEMPEL (Z) the anasthetist

Gyllensvard N Experimental and Clinical Stud ies on Avertin Anæsthesia (Experimentell und Linesch St dien ub Avertingarkos ) g Sca d 1933 1 Supp x

The author calls attention to the shortcomings of the Endreat and the Beck and Lendle modifications of the Sebening method of determining inactivated avertin. As these procedures require from 10 to 20 c cm of blood and to gm of organic mass they are mapplicable to children and small animals. More over the accuracy of the analysi is impaired by the fact that the empty titre values vary The methods are very expensive because large amounts of tissue are required for extraction of the avertin. In the method propo ed by the author which is based on estimation of the bromine contained in the avertin-I or I c cm of blood are sufficient for blood analysis during the anasthe ia

It was found that during rectal anaisthe is in ani mals the avertin content of the blood has a certain relationship to reflex acti aty. Hence it is possible in the cases of some types of animal to determine the depth of anasthesia corresponding to a certain bloo I concentration within fairly close limits As the avertin reaches a more or less definite concentration balance at a time corresponding to a certain depth of anaisthesia the avertin content of the blood shows varying values which are characteristic of different types of animals After a constant concentration hal ance has been reached the avertin content in all of these animals 1 the same at a certain depth of anes

thesia To determine the concentration of avertin which most suitable for anasthesia the author induced anasthesia with like doses of avertin in different con centration under identical conditions in the same

animal and determined the blood concentration curve and the depth of the an esthe is. In rabbits dogs and cats a 3 per cent solution given by rectum induced the most rapid and uniform anæsthesia with less vari ation and a flatter course of the blood concentration curse than 1 and 2 per cent solutions. In man the conditions are about analogous to those in rabbits The author recommends that in clinical cases a 3 per cent solution be administered slov ly and at a low pressure with the patient in the right lateral position If the narcotic effect is insufficient the resorption

s reace may be increased by changing the patient s

If ith regard to the quest on of the site of detorica tion of averting the author states that it is possible to follow the changes 11 avertin concentration in

directly by determining the blood concentration curve of avertin This shows a characteristic course for each type of animal. When large doses are used the curves are less uniform than when small doses are used because the blood concentration is influ enced by various factors such as resorntion the rapidity of the circulation and respiration and the diffusion power which vary markedly in deep anæs thesia Analysis of the chimination curves shows that the fall of concentration in the blood is always proportional to the blood concentration. At the beginning of angesthesia the averting stored in the fats and brouds of the body but later is returned to the blood making the blood concentration curves flat ter in the later course of the anæsthesia. Consequently the anasthesia varies in obese and emaci ated individuals being shorter in the former

With regard to intravenous drop anaesthesia the author concludes that this is mapplicable to man not only because of the poor detorication power of man but also because large amounts of a vertin are stored in the farty, issues and released into the blood later making the annesthesia unduly deep or prolonged

The entire amount of a vertur leaves the body in the unne within forty eight hours after the ains the ia in the form of paired glycurous and. The ratio between the avertim concentration in the blood and in the brain is about 1 is 7. The content in the liver and kidneys is about the same as that in the brain and the content in the musculature is about the same as that in the blood. The fatt, insurand the vagus nerve have a much greater content of avertin than the blood. In man the avertin content is the fat from two to four hours after an intravensa much greater than the content in the blood and musculature. The avertin content of the blood cells and plasma is about the same.

In children in good gen ral condution the man mum blood concentration is reached about thirty minutes after the termination of the intractions infusion. Therefore operation should be delayed for that length of time in order to avoid the necessity of giving additional ancesthetic. The resorpt on Dower is possibly poorer in children than in adults

bence children require larger doses

In individual cases it is very difficult to determine whether observed respiratory disturbances (as physia) are of central or mechanical origin. On the basis of results obtain d in experiments on animal the author warms against underestimating the da ger of mechanically produced asphysia Prevention of this type of asphyma requires constant control of the respiratory passages during the induction of the ang thesia and possibly the introduction of a Mayo tube The lighting of the room should be sufficient for the easy recognition of cyanosis The cause of the asphy ma may be not a centrally produced re spiratory disturbance but a mechanical occlusion of the re piratory passages without the picture of LOUIS NEUWELT MD choLing

### PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

klosel M. The Effect of the Roenteen Rays on the Metabolism of Cholesterin and Its Correction by the Oral Administration of Lipoids (Die Wirkung des Roentge lichtes auf den Cholest inn stoffwech el u d ihr Ausgle ch durch pero ale Lipoidzufuhr) Si blenthe pie 1933 al 1 311

There is a large amount of literature on roentgen sickness and its dependence on the metabolism of cholesterin In all cases in which the hver is directly in or near the field of irradiation general symptoms will be produced by the increased mobilization of cholesterin

The author reports studies of the cholesterin con tent of the blood of animal and man which were made before and after intensive roentgen irradiation with and without the administration of therapeutic doses of lipoids Phosphorus determinations were made at the same time as there cems to be an antag onistic relationship between cholesterin and phosphorus The technique of the experiments is de scribed in great detail

In animals a decrease in the cholesterin follo ving irradiation could be determined with absolute cer tainty but there was nothing characteristic about the behavior of the phosphorus. The results following the administration of cholesterin in the form of colsil tablets were negative. It was only when choles term dissolved in oil was given that the figures for cholesterin remained the same or showed an increase

soon after the stradiation

The studies on human beings were made chiefly on women who were being irradiated for cancer Six hours after exposure to the rays there was a marked change in the level of the cholesterin followed by an attack of roentgen sickness. After twenty four bours a marked decrease of the cholestenn was evident Successful results from the administration of cholesterm depended upon the time at which the cho lestern was given When colsil tablets were ad ministered simultaneously with the irradiation the cholesterin curve did not sink and the incidence of roentgen sickness was reduced to the minimum KESSLER (G)

Caffier P Irradiation of the Ovaries and Hered tary injury as a liistological I roblem (h. m. druesenbestrahl ng und F bsch ed gung als hi to-I gisches I blem) A & f Gy a k 933 hin 25

On the basis of experiences with Drosophila megalogaster and some other insects and plants students of heredity have been claiming practical consequences from irradiation of the o aries in the female of the human species and have been demand ing that the practice of temporary sterilization be shandoned is a result the Drosophila material has

been studied more closely by others besides students of genetics The following to a notable facts have been revealed

1 Mutations after irradiation are much more frequent in males than in females

2 A rat id fall in the mutation rate occurs when the opportunity for copulation 1 given to the insect These facts have been cited as reducing the danger of mury to the germ in the case of the human fe male Students of heredity reject this theory point ing out that in woman all of the o a are struck by the ray as ova whereas in the Drosophila there is a continuous formation of new ova. It was therefore necessary to determine whether this reaction i

justified The first question asked was whether a certain kind of cell has a specific radio ensitivity. The nega tive answer is based on the similar structure of all kinds of cells The difference in the degree of effect is attributed to the growth potency of the tissue under consideration. Newer evidence in support of this theory has been obtained from experiments in titro A culture with a high rate of speed of prolifera tion reacts readily its growth being therefore ran idly checked by irradition. The effect can be in creased by repeated transference of the culture to fresh media. Apparently the mitosis is the chief factor determining the irradiation injury ments by Kemp and Juul have shown that in irradi ated cultures abs nce of new prophases is noted at first 1e that at first no new cells divide after the irradiation Accordingly the cells ready for division rather than the cells in the act of dividing are in a certain sense the most delicate reagents. When this knowledge is applied to the problem of the sex cells it is not surprising that mature sex cells are so par ticularly radiosensitive

In recent times the relationship between radio sensitivity and metabolism has been much discussed It is still an open question whether meta bolic processes take place in the cell nucleus or in the cell body Irradiation experiments carried out by Philipp on lower animals throw particular I ght on the importance of the cell body. The more think fluid the cell contents the more sensitie is the cell to irradiation insult. Ho ever a the transition from a viscous fluid to a thin fluid phase is a neces sary preliminary to cell division and possibly causes cell division it is perhaps here that we must seek for the factor determining radiosensitivity. All mature set products are ready for division ie they have all completed the change of phase and consequently are all at the maximum of radiosensitivity

liter presenting these theories Caffier re news separately the histology of the Drosophila testis the mammalian testis the Drosophila ovars and the

human ovary and points out that in the human ovary in contrast to the three other organs in which the development of the sex products takes place from beginning to end in the testis or ovary there is absolute rest instead of rapid divi ion. All the cells of the ovum with the exception of one mature and a fer maturing cells are fully developed up to the maturation process Consequently there exist as regards the vital processes of these cells a perma nence of rest a state far removed from processes of division a minimum of metabolic processes. Experiments have bown that from this slight readi ness to react there results slight readiness to receive more. The immature cells of the ovum may be compared in a ense to a culture from which rapid proliferation is absent

In connection with these investigations of I more experiments to solve the problem of the different behavior of mature and immature ova in the mam mal nere made. They showed that mature in contrast to immature rabb t ova possess such a high grade of readiness to react that even without the specific stimulation of union with the natiner rell they can be induced to show cell division as este Immature ova on the contrary do not develop in

any way under the stimulation of explantation If in the search for an explanation of irradiation mury one goes back to the difference in the be havior of mature and immature sex products the difference in the mutation percentage after irradia tion of Drosophila males and females : explainable The number of mature female sex products at any time is small even in Dro ophila whereas the num ber of male sex products a engrinously large

Another factor against danger of race ini iry from irradiat on of the ovary in the human species is the large numbe of chromosomes. The importance of this factor was evidenced by the results of Stadler's experiments on plants 1 bich shoved a decrease of mutations and an increase in the number of chro-

mosomes after irradiation There is no re son why for spontaneous muta tions also the same point of time (namely the moment of maturation of the sex products) should not be assumed for the occurrence of the effect since spontaneous does not a gruft absence of mours but injury from an unknown cause Radio-activity is only one among the many possible causes of in Recent experiments with Drosophila show that difference in te nperature is a comparable cause of mours

The aterest in the problem s explained by the practical application of the cientific conclusions that is being demanded of the med cal profes ion Heretofore the has oncerned only roentgen at tivity Diathermy must soon be drawn into the in The previously purely imaginary danger of min's to the germ from roent, en irradiation in mam mals prompted the author to collect the material for this article to show that the evonerative f ctors can not be regarded a d tails but possess a ba ic impor tance No doubt is cast on the statements made by

investigators in the science of heredity but the rossibility of a histological explanation of the observed phenomena is pointed out Correct (C)

Russ S and Scott G M Variations in th Response of Tumors to bubl thal and Lethal Doses of \ Ray B it J Rad 1 033 7 451

The author report experiments carried out to de terrune the effect of various doses of roent en rars upon tumors of a strain of Sarcoma F 16 in rate The variable factors are described and the results obtained are shown by graphs and compared with the rate of growth of a typical control group of tumors under normal conditions The following con clusions are drawn

I The was in which tumors will re pond cannot be accurately predicted from the do e of mentues

rays given unless the dose is very large

After a moderate amount of irradiation there is always some slowing up of the rate of tum r growth If the tumor remains stationary for some weeks and does not diminish in size it will probable grow eventually. Tumors which are got g to disappear as the result of pradiation generall show some reduction in size soon after the exposure

3 The react on of tumors to a given do e of irradiation shows a definite variation the cause of

which is unknown

4. There is considerable evidence in show that the absorption of irradiated tumor cells is able not only to immunize a su centible rat to subsequent sporulation of that particular tumor but also to retard the growth of an estable bed tamor. When arradiated fumor tissue is used to immunize a fum ber of rats again t subsequent inoculation there will always be a few cases in which the immuniting dose appears to have practically no effect regardless of the attention paid to technical detail 11 hy some of the rats fail to react to the immunizing dose is not known In the experiments reported two tumors en en the same do-e of uradiation reacted different!

5 So far as they go the experiments reported in this article show that the interval between doses of roentgen rays s of paramount importance in de termining the subsequent fate of the tumor cells and that the size and rate of gro th of the tumor t the t me of the roentgen ra exposure has appar ently an important bearing on the final result.

ADOLDS HARTENC M D

#### RADIUM

Spear F G and Grimmett L G The Biolog cal Re ponse to Gamma Rays of Rad m a Function of the Intensity of Rad ation Fri J Pad 1 1933

The 4 gm apparatus was used in experiments to determ ne to variation in the biological effectiveres. of gamma irradiation with variations in intenti Tissue cultures were exposed to irradiation and com putations made of the effect on cell di ision. The cultures were exposed for arvang lengths of tim

The material consisted of the choroid and sclerotic coats of fowl embryos grown in fowl plasma and chicken extract Tests of the tissue cultures made beforehand demonstrated that mature preparations reached an average figure of mitosi which remained constant for about twenty hours Because of this constancy counting of the mitoses per culture 1 2 convenient method of obtaining a quantitative measurement of the effects of physical agents upon cell days son. Hanging drop cultures were used approximately twenty four hours after the second sub cultivation Three and six tenths grams of radium were employed in the form of eighteen tubes of monel metal each 1 46 mm long and 46 mm in diameter having a wall thickness of o 3 mm and containing 200 mgm of radium element. The tubes were placed on end with the long axis vertical and arranged in a horizontal circle by means of a wooden disk. The diameter of the circle was 8 4 cm. A brass plate 20 cm thick was placed between the radium and the culture to absorb all primary beta irradia tion The apparatus is shown by diagrams

An attempt to determine intensity by ionization methods having proved unsuccessful calculation of intensity values was fone. The intensity unit adopted was that of Sievert namely 1 mgm of radium at a source point acting at a distance of 1 cm and fiftered by 0 5 mgm of platinum.

Six experiments were performed with varying in transities obtained by varying the distance between the radium and the culture. The object of the experiments was to determine the effect of gamma rays from 3 6 gm of radium upon cell division in tissue of the control of the result of the control of the different intensity. Or compare the results when different intensity of the control of the control were employed to one exposed to tradiation at from temperature and the other unexposed. Before being

fixed and stained both sets were placed in the in cubator for eighty minutes. The eighty minute in terval is explained as the latent period.

In I xperiment 1 a distance of 5 92 cm an in tensity in Sievert units of 622 and a screen of 13 mm of platinum equivalent ere used. In other experiments other distances and intensities were employed The complete 1sta of one series of experi ments are shown in tables and the results with the various intensities are shown by tables and curves The results seem to cont rm other observations of the effects of irradiation on tissue cultures namely (1) that with a given intensity of gamma rays a gradual increase in the exposure leads to a progressive fall in the number of cells in division seen in the cultures eights minutes after irradiation and (2) that with a given duration of exposure an increase in intensity causes an increase in the proportion of cell affecte i by the irradiation I rom the results it is possible to obtain a table which shows the dose require I at each intensity to produce a given percentage of fall in cell division

The e experiments continued the theory that the bological efficiency of tradition may depend upon the rate at which the energy is absorbed that is that the bological effect may be a function of the intensity of the irradiation. Therefore it is concluded that as far as the experiments have gone they suggest that the observed difference in biological effects, can be attributed to the intensity of the irradiation alone. The biological effect increases with an increase of intensity up to a certain critical value. Beyond this point the irradiation required to produce a certain given effect remains practically constant. The e j criments ver interrupted by the dismantling of the 36 gm apparatus.

1 J MES LARKIN M D

#### MISCELLANEOUS

#### CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

Collens W S and Bogs L C Absorption of Dex trose by Rectum Arch Int Med 933 lu 3 7

In the cases of twenty four non-diabetic and seven diabetic fasting patients from 20 to 100 gm of destrose in various concentrations were administered rectally one hour after a cleansing enema. Two hours later a co-c cm enema was given and the evacuation tested for sugar. Blood near determinations were made before the administration of the plucose and half an hour and one and two hours afterward

In the non diabetic groups an increa e in the blood sugar of from 16 to 25 per cent was found and the amount of deverose recovered varied between 10 and 25 per cent. In the diabetic group the findings were similar except in the cases of two patients who showed no ri e in the blood sugar and one patient who showed a o per cent drop. All presented evidence of the rectal absorption of glucose

The authors conclude that dextro-e is absorbed when it is given by rectume and that the amount absorbed a sufficient to warrant recognition of the administration of dextrose by rectum as a thera neutre procedure of value

NALTER H. NADLER M D

Tumors Comparable to Gl André-Thomas A omata Formed in the Muscles of the Titl Following Trauma (Tumeurs c mparables à d s tumeurs glomiques dé eloppées d ns les mu cles d I ruisse à la su te d'un traum ti in } An d at

p th 933 x 657 The author reports the case of a man aged twenty seven years who consulted him in October 1930 on account of constant severe pain on the inner side of the left thigh at the junction of the middle and upper thirds and over the upper border of the internal con dyle of the left femur Pressure on these areas caused great pain and walking and mounting stairs agg a vated the symptoms. The thigh was atrophic and the left leg colder than the right but there w s no definite evidence of a peripheral nerve les on

In June 1028 the patient had traumatized the nance side of the left thigh in falling off a bicycle The atrophy and pain began eighteen months late At operation under local anaesthesia a mass the size of an almond was found in the superficial fibers of the vastus internus muscle. The tumor was very painful when touched slightly adherent to the muscle fibers and attached at its proximal end to a small cord like structure which appeared to be a nerve filament On ection t presented a surface of cicatricial ti sue with a hamorrhagic gravish core Histological study

revealed an irregular mass of round and polyhedral cells buried in connective tissue which lacked definite walls and was surrounded by a large amount of collagen Mutatic figures were few

After removal of the tumor the pain in the upper thigh ceased but the pain over the internal coud le of the femur persu ted

it operation in the latter area performed in Mar 1931 2 imilar tumor the sie of a pea was found in the muscle The spontaneous and provoked pains sugges ed

that the neoplasms were peripheral neuro homata or neuromata but hi tological examination ruled out this diagnosis Roussy and Oberlin who stad sed the sections were struck by the resemblance of the tumors to the arterial angioneuromata de scribed by Mas on

The fact that the first tumor was embedded in cicalmosi tissues suggested a traumatic origin

On account of their low growth and small s re and the scarcity of mitoses the neoplasms are believed to be benien

Remo al of the tumors in the author's case was follo ved by complete rel ef of the pain and the return of function KELLOGG S EED MD

Taylor A C and Moore E Multiple Hama & omata Showing Certain Malignant Characters ti s in an Infant Am J CJ or tost na, 51

The occurrence of multiple hamangiomata to several organs is not uncommon. Such tumors occur most frequently in adults very few are found in The authors report the case of threemonth-old female infant with multiple hamings omata in the skin liver and lungs. The tumors differed in certain characters t cs In the liver they showed a distinct tendency to invade the host tissue whereas in the skin and lungs invasive activity was much less marked or almost entirely lacking. The difference in the behavior of the angiomata in the hver may possibly have been due to lesser resistance of the soft liver tissue to the invasive activity of the tumor elements. It is conceivable also that the h er tissue may ha e exerted a stronger attract on to the endothehal cell of the tumor tis ue than the lungs and ship tosue While in the skin and the lungs the tumor cell formed mainly typ cal capillanes and only relatively seldom more solid strands of tumor cells formations of the latter type were found quite commonly in the liver where the endothelial cells in many places pushed their way into the lumina of the essels forming regular cell strands. They were growing also as more solid strands outside the capil lanes indicating a tendency toward increased motor activity which may have been related to their tend ency to invade the urrounding tissue

In other words some of the tumors had assumed properties which are considered characteristic of malignant growth but in other respects such as proliterative activity and 63 toplasmic and nuclear structure their characteristics were those of benign

grow ths

While it is possible that in thi case as in some of the previous cases in which angiomatous nodules were found in the lung: the lung nodules vere me tastases from nodules in the liver it is possible also that they were primary pulmonary tumors due to factors similar to those acting in the skin and liver

JOSEPH N NA AT MIL

Arndt G Carcinoma Aris ng n Scars Due to
Burns and Symmetrical Carcinoma of the Extremities (U ber den 5 and benk ebs u d das
symm trisch Car mom der E t mit eten) B ii
Nn Ch o ii d li i

The author reports the case of a woman who de ecloped a squamous cell cartonoma on correspond ing parts of both legs fortly one years after a burn sustained in childhood. He then reviews breeby the hi tones of innety nine cases of carripoina developing after a burn which he collected from the third titre. Attention is called to the fact that in the author 5 case the ulcers in the scars healed when at the age of twenty any sears the patient was nursing, actual and or the child was neven as child and or opened again when the child was neven as

In discussing the cause of the development of car tomon in scars the author cities in addition to the theories of Cohnheim Ribbert and Virchow the theories of I and F. Theilhad r who attributed in the equibelial proliferation to a chemical change in the mesodermal issue brought about by the scar Purm ray youth these changes are prevented by good or undation but in old age they are brought about by disturbances in metabolism (vascular occlusion contaction of act insure net issue damage) on traction of act insure net issue damage of the scars of burns are very frequently the sites of scar cancer. Nine per cent of carcinomata of the crimmittee and o 1 per cent of actionmata anse in burn scars.

A distinction must be made between carcinomata arising after a single burn and those arising after protracted exposure to heat and between carcinomata developing very soon and those developing many

years after the mury

The development of carcinoma after an interval of parts occurs, their, in persons who were burned early in life particularly, those burned before the lenth year of age. Burns sustained at more advanced ages are followed by excinoma without an intervening time interval in cases in which a severe burn is sustained in youth the danger of the development of cancer is present throughout life herein cases in which a burn is sustained at a more advanced age and heliang occurs rapidly this danger is practically over after a vear. The average interval before the development of cancers rapidly this danger is practically over after a vear. The average interval before the development of cancers and this parts and in successify was more than surty years and none cases suff, time years.

patients is forty seven years. The younger the patient at the time of the burn the longer the interval before carcinoma occurs.

The extremities are the most frequent sites of car cinoma arising in a burn scar because they are most

exposed to burns

On account of the possibility of complete removal of the carcinomatous tissue the prognosis for cure is favorable. Recurrences may develop after weeks or months but have not been known to occur after two years. According to reports in the literature the incidence of permanent cure ranges from 35 to oer cent. In the author is cases it was 65 per cent.

Catchoma in burn scars is a corrulying squamous epithelial carcinoma. Only nine cates of bilateral carcinoma have been recorded in the literature. No other case of bilateral carcinoma in burn scars has been reported. It is not known is that proportion of persons with burns will develop carcinoma in the burn scars.

RUDELE (2)

Baker H S The Treatment of Cancer with Con nective Tissue Extracts Lo 1 033 cc 643

Baker assumes the evistence of a factor which in hibits the tendency of living cells to reproduce them selves indefinitely. He believes that this factor is a substance secreted locally outside the blood stream and discharged into the livingh and that if a cell or group of cells assegure to dedequate inhibition—e g by lymph stass or failure of secretion—it will recross the contraction of t

He regards it as not impossible that the inhibitory factor is an enzyme that its major function 1 lipo lytic that it is secreted in the connective tissues functions to the best advantage in the area of its secretion and in normal persons is destroyed in the

lymph glands or the blood stream

The treatment described is intended to introduce this essential substance into the carcinoma by the intravenous administration of an extract of connective tissue derived from an area in the pig or cow which corresponds to that of the primary growth in the patient Baker has found that following this treatment the patient loses his cachectic appearance and the carcinoma diminishes in size and becomes attenuated in vigor These changes suggest that by repeated courses of treatment at increasing intervals the careinoma may be deprived of its power to de stroy life Assuming that the inhibitory factor has been introduced into the blood stream in sufficient quantity and is circulating. Baker believes it will attack the overgrowth of cells-at any rate cells from its own area-wherever it may meet them. That is to say its action can be expected to affect metas tases as ell as the primary growth

In pope of the thirteer cases to which the de scribed treatment was applied was there any lack of response. One patient has survived in relative comfort for a year longer than was expected

The method employed in making the breast ex tract is as follows Thus, three grams of connective tissue were obtained from 123 gm of own breast and thoroughly ground with fine sand in loc care of gly error. Very cube centimeters of water were then added and the whole was filtered through a Setz filter at the maximum pressure consistent with effective sterileaston. One ball per cent phenol was then added the reaction adjusted o 9 per cent sodoum phosphate added and the pHI checked. One tenth per cent ood uns tauvocholate and o 1 per crost sodium gly ocholate were then added the pII was again adjusted and the extract was boiled in introgen.

The activity of the extract thus prepared is re tained only for from ten to fourteen days. At the end

of that time precipitation may occur

In every case the preluminary dose was t e cut Subsequent doses were uncreased gradually to our ome a postulated increasing resistance of the blood to inhibition. The maximum dose was 25 ctm. The interval between doses should not exceed four the interval between doses should not exceed four

The immediate re ult of the injection is flushing of the sain in the region of the needle. This is followed within about thirty seconds by flushing of the face suffusion of the conjunctive and discontine in the tongue sametime amounting to pain. If large doses are given these symptoms are followed by a throbling beadache which may last for half an hour. In one case priors occurred. ISEPIEX NAME MD.

Carmona L and Grassellino V The Oncogenous Action of Tar Subjected to Diverse Physical Treatments I Finely Divided Tar (Sulz acone on ogena del cat ame sottoposto a d ers tratta ment fis c 1 Catrame finamente suddi 1800 CI dr 1933 W 749

The authors review the l terature on tar cancer and particularly the more recent work of Kottareff who using an electroly set tar preparation was abe to pro luce tumors in sitteen days. Kottareff concluded that the electroly is can ed a dissociation of the molecules so that the active our openius principal controls of the control of t

ple of the tar was more read h absorbed. In order to study this phenomenon the authors prepared an eni. I on of tar with agar. The tar particles a determined mucro opposable averaged about the aute of a red cell but many were smaller. In the tax sense of experiments the inject on of the read of a red cell but many were smaller. In the tax sense of experiments the inject on of the read of a red cell but many were smaller. In the tax sense of experiments produced death of all of the animals. The emulsion was relative all of the animals. The emulsion was relative than preparations of unemul red tar. The nection of smaller doses of the are mul; in dd an a cause an tonce symptoms. In the minutch durided particles of tar the authors were anable to demonstrate any oncogenous properties comparable to the enot die Notazetff.

In the course of their experiments the authors obser ed the formation of a cy t at the site of the inject on of it are in the subcutaneous tissue of the ear of the experimental animal. The cyst was lined with dermal epithel al elements and was conrected with the e tenor be a very small opening. The authors believe that cysts of this type are formed by a growth of the epithelial cells of the skin alo the needle track to surround the injected material. To chemical nature of the injected material may also a factor in their formation. Perix A Ross, Wo

Carmons 1. Oncogenous Action of Ter Subject ed to Various Physical Treatments. If ter Subjected to the Act on of the Roentgen Re x (S. Il az one on na d. I. extrame softippo x d. rs. t. attament ficht. Catrame soft pox p x an red range Roentgen). Cf. Ar 1011 IF R.

Following the researches of kottared veslucities extraordinary on ognetic actions of tar-ebyerd to the electrical current the author under ook states to determine whether changes would develop from the application of tar pre-of-shy subjected to the action of the recentgen rays. The tar was irreduced with a definite does of reentier rays for penols of lifteen and tharts immutes. Animals quanted with this tar seemed to full faster than the courtool. Ach

were painted with non irradiated tar.

In the animals painted with the irradiated tirdeath occurred soon r than in the controls and wis
accompanied by marked generalized circulators and
degenerative changes. The onco-eneuropower of the
irradiated tar did not seem particularly cha g d.

The author believes that the generalized charge were due in some way to the act on of the needs a rais. He suggests that the rays may change some substance in the tar so that it becomes more lost some of the rays may be retained in the tar and passed to the animal or the rays may affect the shar so that the at itself causes the injury.

1. Loris Rost M.D.

#### GENERAL BACTERIAL, PROTOZOAN AND PARASITIC INFECTIONS

Epsten J W and Grossman A B Bacill a
Procyaneus in Children 4m J Dis Chil
033 xi 1 3

Bacilia p octaneus although of Jight pathogenicity in adults may be particularly virule t in children especially infants. It attacks the skin more frequently than any other structure of the body and the skin is usually the portal of entry in cases of vaternic infection. Characteri tie of the infection are necrotic ulcerations which are especia apt to occur in the anorectal and genital region. Umbil cal wound in ections may result in equ cernia. Not infrequently the bacillus procvanes the cause of ours media which is one of the most common injections of childhood. Programs in fection of the eves is rare in children beca de it usually follow an adustrial injury The organ 23 often infect the e-pirat ry system Not uncom mo I the myade the gastro-intestinal tract. I demics of ummer diarrhora may esult from the infection Infection of the urinary tract and t men ges are relati els infrequent. Blood infect o a d lesions of the bones occur occasionall

The authors report a fatal case of bactilus pyo cyaneus infection in a child seven years of age. Two days before admission to the hospital the patient had a temperature of 104 degrees I and complained of excruciating pain in the region of the rectum Rectal examination was negative except for pain The temperature was of the septic type Four days after the onset pericarditis developed Eleven days after the on et under nitrous oxide anasthe ia gangrenous areas about the rectum were inci ed ganorenous tissue showed in abundant growth of bacillus pocyaneus Four lays later the patient was comato e the abdomen became distende l and purpuric spots appeared over the mid dorsal and sacral regions Death occurred the following day During the illness the leucocyte count vas low ranging from 3 200 at the time of the patient's ad mis ion to the he pital to 1 600 two days before death At autopsy a culture of the heart blood and from the gangrenous region of the buttocks yielded an abundant growth of bacillus programeus and bacillus coli

In conclusion the authors state that because of the characteristic skin lesions the diagnosi of bacillus proceaneus infection is not difficult

ALTO OCHSYER M D

Germain H The Theraps of Ceneral Strepto cocc c Infect n (De l thér p nou de l'inf t on g érale st pt coc q e) Re de h Pa 1933 h 423

The author includes with ca es of general strento co cic infection all cases in which strentococci or their to ins are present in the blood stream with or without metastas s. He points out that during life the blood 1 not a good culture medium for strepto cocci Therefore the organi ms do not multipl but are merely transported in the blood stream They may be killed off o may lodge n the various tissues and give rise to new point of inoculation The primary infection may ha e its origin in very small foci in the skin tonsil teeth or nose which require a careful search for their di co ery streptococcus i an important factor in suppurate e thrombophlebitis The demonstration of strepto cocci in the circulating blood not always proof of a grave general infection as the organisms may be thrown out from a focus and rapidly destroyed To a certain extent a lation in the virulence of strep t coccic infection depend upon the st am of the organ m

Prophylactic measures against general strepto coccic infection are strict agens; proper drainage when it is impos ible to remove the focus completely the u e of the diath rmy knife an i sterilization of the infected areas by the Carrel technique

Curative treatment depend to a great extent upon proper handling of the p iman; focus. Under different conditions th's demands different measures upon a condition of the focus (2) d a n age (3) amputation and (4) ligation or resection.

of the efferent tens. At all times it must be borne in mind that interference should either be very drastic or else associated with minimal operative trauma. Secondary metastases should be cared for in the same manner.

The author discusse also biological procedures (i) Fochiers method of producing a sterile abscess in an effort to cause a hyperleucocctosis (2) the in jection of milk or peptione (3) the use of colloidal metals (4) the use of streptococcic vactines and the local application of bacterial products (5) the use of anti-streptococcic serium (6) transfusion and immunoritaris/usion (Winght) (7) the u e of bacterio phage and (8) chemotherapy with such substance dum nucleanars and stotopic elucoritorione so

In conclusion Germain states that a combination of surgical treatment of the focus by the methods described and adequate and streptococcic serum therapy or immunotransfusion yield the best results in cases of the type under di cus ion

MARSH W POOLS M D

#### DUCTLESS GLANDS

Hubble D The Influence of the Endocrine System in Blood Disorders La / 913 cc 1 3

This article presents a thorough revie of the literature on the experimental and clinical evidence relating to the effect of the thiroid adrenal cortex and the anterior lobe of the pituitar gland on harmatopoises. The second part of the article is devoted to some intere ting hypothe es on endocrine disfunction as a cause of holoid discrissias.

From the literature it appears that the thy road hormone stimulates the formation of er throcytes and lymphocytes and has a tendency to depre the granulocytes. The adrenal cortex stimulates the formation of granulocytes and possibly has some stimulating effect on ery thropose: If he basophile stimulates all types of blood cell granulocytes and possibly that the stimulates all types of blood cell granulocytes of the possible through the stimulate all types of blood cell granulocytes of the state of the facts it is suggested that blood disorders with hy-crpla it is suggested that blood disorders with hy-crpla it is suggested that blood disorders with hy-crpla cell man be secondars to excessive or deficient endocrine function. The author summarizes this relationsh p in the following table

Many observations reported in the literature support such an etiological relationship

The occurrence of polycythemia in pituitar basophil sin and the similarities bet een exoph thalmic goiter and chronic lymphatic leukemia as regards symptoms basal metabolism and respon e to todine are discussed at length Turther Jines of in estigation are suggested to test the hypotheses presented. It oam I wr M D

Christ e R. \ The Funct on of the Carotid Gland I The Action of Extracts of a Carotid Gland Tumor in Man E d c logy 1933 xvu 421

Extracts of a carotid gland tumor in which the morphological character of the cells was comparable to that of the cell of the normal carotid gland were found to contain in high concentration a thermostable vasodepressor pri ciple which differs in its properties from acetyl choline adea, Lc acid and histamine The author suggests the name of carot idin for this substance. Its action on the blood pressure the pulse rate and the virgin uterus i di rectly opposite to that of adrenalin As far as is known neither the carotid gland nor the sinus has any sympatheti unnervation

GEORGE A COLLETT M D

Christ e R \ The Function of the Carotid Gland II The Action of Extracts of the Ca ot d Gland of the Elasmobranch Endoc 1 of ry 033 xvii. 433

The carotid gland of the elasmobranch has been shown to contain two active principles. The one a vasopressor principle acting on the constrictor myoneural sunctions is indistinguishable from adrenalin The other a vasodeoressor principle for which the author surge to the name carotidin is imilar in its action on the blood premie and the viral gumes p g uterus to the principle which he icuted from a human carotid gland tumor GEORGE A. COLLETT MD

#### EXPERIMENTAL SURGERY

Howes E L The Strength of Wounds Sutured with Catgut and Silk. S & G; c -D's 1 22 309

Experimental wounds in the stomachs of rats which were sutured with catgut and silk of the sime and different sizes demonstrated that fibre has began earlier and the wounds gained strength more rapidly when the suturing was done with silk this when it was done with cateut Microscopic sectors showed the exudative phase to be of shorter durators in the wounds sutured with silk than in those sutured with catgut. The larger sizes of all or catgut give no additional strength to the wounds either immedately after the suturing or during healin

The efficacy of catgut and silk as suture materials and the indications and contra indications i r their use are discussed. The author states that sak must be employed by a definite technique and that care! would have greater efficiency if it were used accord in to the same technique Jacos M Moza, M D

## BIBLIOGRAPHY of CURRENT LITERATURE

NOTE-THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE OF WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

#### SURGERY OF THE HEAD AND NECK

#### Head

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Corn al ulcer t tre tment H F Wit LMIN Cal f mis & West Med 1933 XXXIX 81 Afte ye port on the f surgery ndr dum n the tre tm nt of severe leucomata of the corne H L Hir G RYNER and H L HILGART ER JR Ter 5 St t J M

013 XUX 3 5 oil riux 35
Nicrose p appeara c s f c rn l grafts J W T
Toans B t J Ophth 931 u 229
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J Le ve Am J Ophth 1933 x 1 05
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Ophth 1933 xv1 00 Complete d ci n f the crystall n l ns C Berk s a d O Str Heyska Am J Ophth 033 x 1 7 9 The history of cataract op ti n L Jack 0 Am J

Ophth 933 x 1 767 An waitch in cataract operation G McD Van Poole Am J Ophth 933 x 88 Implym tol a conjunctial brdge adsten

e taract extracts G SLOCUM Arch Ophth 1933 x angiold streaks of the fu dus orul. T WA SEVAAR 1271 m J Ophth 1933 x 59 Sympathetic scientis B 5 muris A ch Ophth

[27] Operati e tre tm t f detachm t f the r t na ab-stract of th official re wires t d bef the Int r national Ophthalm I gi al Cong ess Madrid Sp 1 April 18 1033 A. VOGT Arch Ophth 1933 293

Progress in ophthalmology I A review of the I terature concerning d tachment of the r tina and its treatmen-The relat n of the paramasal sinuses t ocular disorders A review of the recent ht rature A L MACLEAN Int mational Chance 1933 in 2 3

Disciform degeneral n of the macula flumus and Kuhnt) A review I the hterature since the ppearance I th paper of Junius and Kuhnt in 1926 F H. ADLER. Arch

Ophth. 1033 x 3 0 Retmoblastoma. F L. SECOY J Jowa State M Soc

1933 XXIII, 506 A case of angioghomatosis r time with a pathological report, T A CARR and H B STALLARD Brit, I Onbith

Opt c pseud neu its and pseudopapillordema. R K LAMBERT and H WEISS A ch. Neurol & Psychiat 1933 TIT 500

C agenital atresia i the external uditory meatus. L RICHARDS Arn Ot L Rhinol & Laryn of 933 Aug.

Modification of plastic operations f treatment of tresias and teno is of the external auditory apparatus B S PREOBRASCHEVSKY Otolaryngol. la 1933 1 249 The phys ology the ling aural acuty bon conduction. A contical re 7 M ] Gorrites Ann Otol Rhin l &

Laryng I. 933 xlu 835 Tactile sensation as related to hearing testin, and bearing imp ess is through nerves other than the eighth. D MACPARIAN Ann Ot I Rhinol & Larymool 933 zhi,

Wea ers de f ess W B McKervie J Laryngol & Otol. 1933 xl 111 607 Otoscle osi na se en months fetus L K Gi ggevnery

Ann Otol. Rhinol & Laryng 1 1933 zhi 690 Otoscieros s omplicated by other lessons. A tudy of roentg nograms audiograms and laborat ry a d clim al

findings E P FOWLER Ann Ot 1 Rhinol & Larynool 1933 xlı The role of the fusif rm spirilla infections in purulent

disease of the middle ear 5 1 Wester O claryngol. 1933 1 272 The problem for this media and mast ditis in carl the er J I have us and S Farrowes A w England J

tied 1953 cu 494 The treatm at of chronic supports e titis T R. RODGER J Laryna ! & Otol 933 zlyni 525 1271 Two cases of acusticu tumo with chinical and patho-I gical repo to 4 4 CRAY Proc R y Soc. Med. Lond

933 xxvi 1100 Mastord tis a dul nital diagnosis. H DINTENE is

I Vied Soc New I rsey 1933 xxx 6 9 Emp) ma of the petrous per Furthe observations and case reports. S. J. KOPETZES and R. ALEXER. Ann. Ot. I. Rhin Lalaryn 1 933 xlu 80

#### Nose and Sinuses

4 case of saddle nose. S. G. Sterra. Clin. v lab. 943

xvu 673 Studies f masal culia in the h ing mammal Proetz Ann Otol Rhinol & Laryngol, 1933 zlir 778 The pread and phagocytosis of particulate matt nasal mu ous membrane I the rabbit. B I McMano

trn Ot ! Rhinol & Laryngot 1933 h 660 An e n the trestment of atrophic hintis. J B as STEIN I LANDOOL & Ot L 1933 El 7 603

Physical measures in hypertrophic rhinitis. 4. R. Hor-LENDER. Illinois M J 1933 hav 109

Procress e granul matous ulcerat nof the nove to at faten) J P Stev art Proc R y oc Med Lord 1933 XXVI 497 Serology bacteriology and symptomatology i there

cleroma. L. BERLINERBLAT Otolaryn rol. sla On the elimination of lipsodol from the pasal sa es.

J W Levice inc. Ot 1 Rhia L & Larrarol 1935 to 32 Autog dous accines in the treatm t of through a infections and na. al all rgy W C Cov. II .....

1933 lexu 121 The histopathol of I non pecific s using W &

Il CNER T rashtate J VI 1933 Kux 3 9 Tw unusual case of fro tal s nusitis H. L. Haur. I Laryngol & Otol 1933 xl 11 608

A discus n n scut and three c nitament n de-riers of the throad I nd sph n idal inuses. F Ir MATTRE and A Attach J Laryn of & Otol. 233, 24 ab.

The flect of rad cal antral's rgers on bronching asthra-II P WARVER and G. McGREGOR. J Laryagol. & Ot 1 1933 1 1 505

#### Mouth

Diseases I the buccal mucosa, chroni tions C Keppe Pessem d Par qui rh, 13 Gold th rapy and infect ons of the mouth. Her. 1 mez Ros and Conoxxir Arch de med cirug y especial

1933 X V 98 Malignant tumors of the mo th and that patholexohistological study I HOPHAUSER, Arch. f k'n. Ch.; 933 clerc 37

Oral cancer in bet I nut hewers n Travar ore. L3 ORR Lancet, 1033 cetts 5 Harelip cleft palate macro toma repeated perations

ROCHER and Green J de med d Bordenus 1933 CS. Carcin ma f the lip 1 linicopath logical analysis of

seventy ee en cases od a s great n I r a rat nai plan of treatment O R. Hyernas. Arch Surg 1933 zrou : It what time should cleft palate be operated pon

E Eighnory Charung 1933 . 63 Report fa case f mabgnant granu, ma f the bard palate I S Hall Proc Roy Soc. Med Lo 3 33

Spinoc It epith homa I the t nove P Dr 12 B.A. et m m boc nat de chir ogg lir r o

#### Pharyns

Progres to tolarymeology W W Exces Internation al Chines 1033 U % The tology f Zenkers puls n d ert cul m. P ADER PLAS M > Zentralld f Chr 033 p 00

It path enesis of parapharymeal beess of otoreix D M RUTE BUR Zischt i Hab \ wa u Obreuhenk 1933 XXXIII

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Otol Rhin l & Laryng l 033 h Th effect f th gai nocaut rs on th lancton of the t as la A. T. B. va ge wo Otolanyagol la 933 " Sa

The palati e to s is some remarks cone rning their sur g cal removal J D THOMPSON South M J 933 XXVI

778
Th effect of tonsillectomy on the development of im mun ty t sca let fever as hown by the D k test C KERESZTURI nd W H PARK J Am. M Ass 1033 CI 764

#### Neck

Observ tions in 100 cases of cervical rib G Torelli P liclin. Rome 1933 xl sez chir 399 [29]
A study of twenty four cases f neck infection A L BECK Ann Otol Rhinol & Laryngol 933 xli 741

Die ses of the thyroid in child en R. B. CATTELL

West J Surg Obst & Gyn c 1933 1h 5 6 Chronic thyroid dise se one continuous d sease process

Wennet, Am J Surg 933 Ext 446

flype thyroid m associated with pregnancy J
Lehman West J Su g Obst & Gynec 1933 xli 524

The t eatment of myxordema \ Carata orri Ras segna i ternaz d clin e terap 933 xiv 651

Dynamic m rphology of endemic go t r G M Gure

WITSON Irch f klin. Chir 1933 clxxi 542 Me us and method of got r prophylax

Survers Color do Vied 1933 xxx 345 The relate hip of thyroid ad noma and of prol ferating g ter to the capsule of the gland and t the blood vessel I Doerries Frankf t Zischr f Path. 1933 xhv 46

Thyrotoxicosis maked by normal or subnormal b sal metabolic rate R S Morgis International Clinics 1933

Pre-operative and po toperative t eatment of had rik plus four tox c goiter S J WATERWORTH West J Surg Obst. & Gynec 1933 xli 531

P toperative reactions in Based wsd ase H RAHM Arch f klin Chir 1933 clexiv 651

Su gery of the thyroid in children W L Bowes Illinois M J 1933 Law 277 Advan a es and technique of preliminary hamostasis in thyro dect my M Nordiann and I M Larsov West

J bu g Obst & Gynec 933 xli 485 The dangers of air embolism in thyr dectomy D

GUTHRIE and R. L. EVANS West J Surg Ot t & Gynec 1933 XII 497 W ghted retractors for tracheotomy C WE ELHOEFT I Am M Ass 1933 ct 365

Local angesthesia in thyro d surgery C VAN METER Colorado Med 1933 XXX 344

Further observations n p r thyroid protecti W I TERRY and H H SEARLS West J Surg Obst & Gy o 1933 xh 507
The influence f S r Felix S mone in the development of laryngology I Frank Ann Otol Rh nol & L ryn ol

1933 11 64 C cer of the laryn. The anchorage f adium and its

#### SURGERY OF THE NERVOUS SYSTEM

#### Brain and Its Coverings Cranial Netves

The diagn sis a d treatment of njuries f the head W. F. Davo J. Am. W. 188 933 ct 772
Th. ma. g.m. nt of head juries W. E. Delaney J.R.

In J Surg 933 xxi 493

Vot had in res d their management, A R

Hartings J Kan W Soc 1933 xxv 333

The magm tofacute head i junes B b Carter

Int rnat al Clinics 1933 223 The tr atment of sk ll nd brain 1 1 es A J Butsr J So th C ln M is 933 xxix 200

Dagn to procedu s on the bran and the nerv s v tem Wavze Zent al-1 f (her 1933 p 708

Studies of the unified in function 1 h ada hes f p lu tary origin B Ct max. J Am M Ass. 933 ci

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A ho c I ressem d Pa 933 J 77
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t n from the ubarachn d spa e t th trace L. B FLENNER Bull J has H pkins Hosp Balt 933 lu 140

A case of enc phalomediumity run.
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L VAN BOGAERT Presse med Par 933 1 1363 Sph no-occup talchordoma p rt of 5 M CN 08 a dL D Stern 1 ch Neur 1 & P ychiat 033 xxx 6 2 M dulloblastom involving th kidney L P ALVEY South M J 1933 x 1 753
Surgical treatment of tumo s of the third ventricle M

BALADO Bol inst de clin quir 933 1 5 BALDO Bol inst ac on quir ogg; 5
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Removal of the right ce ebral h mi pher for inflirating gliom rep t f ca W J GARD ER J Am M Ass 933 € 8 3

by ar s work in intracran al su gery J F PATERSON System of age of the ceb p lift dits espeinment lb thickness of lincal ppi the dith

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B ut e E Heymann Med Kln 1933 1 493

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Pits in the segry of the front libe of the brin
JR Le provin and HC V x s Arch Sug 933 XX 11 506

Creiral pseud t m rs ch carchn dit Go occce m n gitts in a whorn of nt with re of the literature W L BRADFORD BIH W AFLEN 84

The tr atment I a u tic neuritis with proteins P ZAVISKA Rev m d de la Su se Rom 1933 lu 564 R c at kn wledge r arding th physiology of the glas sopharyng al nerve in man with an analysis of its sen sory motor gustatory and eccretory functions. F L REIGHERT and F J Porn. Bull Johns Hopks Hosp Balt out lu rer

### Sp nal Cord and Its Coverings

Reflex changes after injury to the ps amid I tra t in the macaque gibbon and chimpanzee W SCRICK Irch

Secrol & P yehrat 1933 zz 501 Myel tic and myelopathic lesions \ Comp ss on f the spinal cord by expanding lesions producing mild mod rate or marked I reference with the circul tion lead no to myelopathy M Keschwer and C D vison As h

Neurol & Psych at 1933 xxx 592 Spina bifida occulta. Bo SET and POLLOSSON Lyon cbr 1933 XXX 475 larabers paraverteb al block fr the tlef f pain

S VER ON Am I b g 1933 ES1 416
Tumo f the cod atradu al men uga ma Devis CHARBONNEL and Massé J de med d Borde ux 933

CX 576 Cert odorsal medullary tum peration reco ero Leo TE Rev de chi Bu harest 1933 xxxvi 2

### Peripheral Nerves

I case of typho d polyreuntis J G Fern Nort M A LANE and I M CAMANA Sem na med. 1923 at 48

Discussion on the causate and t atment of intentional neuritis W Harris M B Ray J P Martin B Britt and D Drive Bron's Proc. Roy Soc Med Lo 4 1011 XXV1 1150

I trathoracie neurmoma B Cuyto Bull et m m Soc. nat d chir toss lix tiaz

#### Sympathetic Nerves

The present status of sympathetics to the Rizora.

Zentralbl f Chir 1933 p 758
Surgery of the sympathetic nervous 3 tem P G FLOTHO V and G W SHIFT Am J Sarg 1933 xm 34 Reli f of p in on a sympathetic basis. P G FLOTH Northwest Med 1931 xxx 369

Observatu na followi g ympathetic gangi onectomy a cases of po tencephalitic parkinsonian syndrome C F REES \m. ] Surg 1933 XX1 411

#### Miscellaneous

The so-called circul tion of the cerebrospinal find. G B HAS 1 J Am. M Ass 1033 Ct, 821

Dwarft, m and ocular d fects in h red familial disease d the c ntral n rious system. B Mirrelmany lith.

ur le Pochiat 935 tes 621 Spontaneous subarachno d hem ribace H. H. H.

LAND Canad an M \ J 1933 XXIX 145 Famil al spastic paralysis Ar port of three cases in one fam ly nd observati n at necropsy H. L. Pisking and T. T. Sto E. Arch. Leurol. & Psychiat. 933 xxx 48 A cas f pastic paraplegia due to scolios adult, rel and by lanunectomy II Sarcoms fth scare dneurofibromatosis. Glascow M ] 1935 CTL, 2 0

#### SURGERY OF THE CHEST

The tre tment f cance of the breast by the methods, with results H H TROUT Virginia M Month 1933 is

#### Traches Lunes and Pleura

Ob ert to us un tile management of 100 f reign bodies in the ra d food passages E & Gnla dJ A. Pricata,

In Virginia M W neh 933 le 335 Primary malign at timors of the tra hea report of

a chinical study Banarowy. Presse med Par 933 L

Pn un nia hographic studies. I The pneumo-scho-gram no imal person. II The effect of body e reuse in the pneum tablogram. III The pu umoischeyam ad different d seases. II. The effect of a n medicinal different d seases. g nts upon the pneum tachogram. T Haware acts sch lae med no ump Kioto 933 x 1 47
A simplified method for intrapolmonary up odol in preum.

G I W COTTEN J Lanc t, 933 Lu 456
Post tra mat c pulm nary h ma. Leriche a d Frien

Lyon chi 1933 xxx 593
Co gen tal a r cy t f the lung report of a case C. I
CROSWELL and I C Kryo J Am W 488. 933 C.

gical respont a hydatid evet of th lungs. ELLIPING Med Ibera 933 x 21, 253 A new method of operats e tr atme t f ech necection cyst f the lang P Value 7 P helin Rome 1933 th

se chr494 the urse of pulm n ry fects n. ] Tubercums s Corte Presse med Pr 933 xlt 1308

#### Chest Wall and Breast

A guosarcoma of the best wall. F E Apara Ann Surg 1933 X 1 45 Anatomy of the breast, H M Havren, \ rginis M

Month 1933 1 371 The bleeding b t L C NOLPERS Arch. f khn Chr

1031 ChO1 447 The diagnosis and treatment of lesions of the breat

S W. H. ERENGTON Am J. Cancer 933 ERE 56
Tuberculosis of the breast. D. A. Roj. S. Bol. Soc. de. obst 3 gt et de Buenos Aires 1933 2 397 Grant turn r of the breat r port of a case W F

Marry South M J 933 xxv 822
A contribution of the nature and to logy of Loogran
fomator's mammar F Krays Zentralbi f Ch c 1933

Malignant tumors of the male breast M P NEAL A th Surg 1933 XX 11 427 C neer I the breast ymptoms and diff rents I diag

B F Eckle Vignus M Month 933 lx 375 Can er of the breast general path I gi al cons d rations II W BACREAN Is g mas W M ntb 1933 h 372 The slow course of a cancer f the breast in an eld ly person. F E Aprix Ann Surg 933 CVL 446 The prognosis in mammary arcinoma its late n to

linical and hist logical grading a d to treatment E h. Diwson nd V C Top Ed pourgh M J 1933 at 15 T atment f cancer of the breast hay not add me directly JT WKI ver light a Williams 1933 lx 377

C llapse therapy in e is m numal less us of pulmonary tubercul s s E j O Brien Am J R entg nol 1933

XXX 315 The rapeut concumothorax f rea ly tube cul us infiltra ton fth lung G Laws Reforma med 1933 17 28 Blateral p eumoth rax J BEERENS K v belg d

se med 933 v 457
Art fee i pneum th rax in a g oup fe ses of pulmo ry t berculos formerly looked upon as h peless R Morgan

Im J Roentgenol 1933 XXX 300 An estimate of the v lue I phr nic nerve int rrupts n f rphthi based on 6 4 cases L W EHIL and J ALEX

ANDER I Thorac C Surg 1933 11 549 Pulmonary ca ties and ph nic ctomy Builly nd Laporty Prog del clin Madr d 1933 x 1 487

A atomical c iderations in ra scale of my S 1 TROMPSON iderations in radical f hrenic eres s New 1 k State M I 1933 XXX 11

Ap colys s R. Moxon Bull et mem Soc n t. de ch r 933 bx 3 6

Aprilys's H FRUCHAUD and A B RNOG Bull et m m Soc. nat de ch r 1033 li 1168

Intrapleural and e trapleural pneumolys in the te t ment fp lm ry tuberculosis L S Peters a IP G
Corvi R J Am M Ass 933 c 86
Rad ological study of leoth ax \ Capt. Radi

med tott xx 1104

A technique of thorac plasty B \ CARTER Sug Gynec. & Obst. 933 l'1 352 A selecti e type of thoracoplastic operation W \ Henson J Michigan St t M Soc 933 xx 506

Pulm nary's pourat n due to pirilla infection and this prognos C Raniga and F Tites Bruxell m d 1933 X1 1 10 3
Acute p) thorax The tre tment fichild en and inf nis

by pir tion of pu and ir repl c me t a prel m aty eport H Blocif and P L Parrish Am J Di Child 1933 11 1 18 The diagn s and t eatment of b pchiecta s with

odized il. R G ELLIOTT J Med A s Geo g a 953 tudy f two

Iodized oil n bronchiecta s in l d g tudy f cases f llow g I bect my J \ WEI EKG Arch S 1933 XXV 545 Ben on turn rs I the br n hus with especi I fe nc to 933

XXXI 423

M ligna t disease I the bronchu I C ORMER p
Poc R y Soc Med Lo d 1933 1 483 The pathology a dt eatme t Imalign tgrowtl bro ch I C ORMEROD Proc Roy Soc Med Lond

broth F C UNERGOU AND THE STATE AND THE STAT

Radiol md 933 xx 973
Th opla ty lo purul t tuberc l us pleurisv \ F
Siv Marris Soc d rug de B e saires 933 x u 73

Intraple ralpreumolys with the gl nocautery EC JANES Lanad n M 148 J 933 xx 47

#### Heart and Per ardium Angiocardi graphy P Rousthiji Act

dı 1 933 The late seq l of any e t the c d muscl a d co onary vessels G G own to A ch I kln Ch 1931 Chray 240

Surgical treatment of m trol ten is and dherent pe cardium F C CUTIER J de chir 1933 xl 1 190 Scute peric rditi a re iew of 2 5 a top es L N Peran nd \ B Par I Path & Bacteriol 1933 x x

#### (Esophagus and Mediastinum

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Esophage I di e t culum F H Lines J im M

155 1033 C1 994 (Esoph geopulmo ary fistul and divert culum with an atypical course in a m ga creophagus G Pacci Rad 1

med 933 < 1 83 Traumatic ruptu e f the osophagu Pervis and Piror \ n d anat path 1933 x 956

p toffo i Sponta ous ruptu e of the crooph gus ca e R Gorr Jr 4m J M Sc 1933 clexx 400 [33] Ac dental peri rati n of the cesoph gus g strostomy r co ery A plea f r retrogr d d l tati n in small siz d trictu's C J IMPERATORI Ann Ot 1 Rhinol & Laryn 1 933 hi 799

Con er ati e treatm nt fer at cil ont a tures of th pharynx and orsophagus \ L. SLIE 102 Otolaryngol

Slav 1933 24
Thereulo s it the cesoin gus with the poil face it is not son M C Myerson An Otl Rhn l & Laryng 1 1933 xh 829

Syphilis f the resophagus F WA N LLIAMS
Pr tto e 1933 v u 3 o
Syphul Ith resoph gu V Po 2001 Pol ln F m 933 I se prat 200

1 ngenital cyst f the osophagus B S CRAN J P th & B te ol q33 xxx 11 33 Th de el pment f seco daryo a a c n ma dem

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end 933 lex 43 The treatment is mid astin is mphys ma il knauss D ut the Ztschr f Ch 1933 cc 1 30 A case f med st al de mod cyst f the p imonary type with ham pty te mi ati by metast t sept c e phalitis G Caussa E J Decourt and A Durois I. 1341

Arch med-ch del appa espir 933 i 46 Rad ochymography the d g s f t m of th med st num G BONTE Pe md I 933 Xl Tumor f the med t num Bérard and H 1 fy n

chi 1913 XXX 479
Thymicdse E D Criterie D T v St t J M

#### Miscellaneous

Rar 1 mmunica tes of the th ra c I mbar and sacral co d in the ad lt C RE on P mid Par 933 rl Stab wound f the ch st in 1 g th d aphragm J F Covors in Sirg 933 x 1 453 St b wound f th tho x w th

the with t mal mammary hemorrh ge and vascula t mp nade H Meyer B RC no 77 D utsch Ztschr f Ch 933 1 242
A c e f subcut neou rupt of the d aphragm G Ac e i subcut neou rupt of the Gezettus Acta ch ru g Sc d 933 l

Hatus hernix T Barson Arch I Verdaus galer 1933 his, 349 [34] Hernix through the ecsophageal histus. A WaG TR Hosp T d 1933 p 2 7 [34] Histu in un econoces and so-called histus hernix Ana

tom al investigati as and mechanical tests in the region if the crophase al histors of the di phragm. A. NEUMANN. Arch i path test 1933 celebrate 70 [35]

Disphragmatic herms sympt ms and surgical tres ment in sixty cases. S W HARRICTO J Am W Am 1933 Ct 687

Gastropleurocutaneous fistula following gunshot would
W. H. Lassovs and W. G. Westo. Am. J. Com. 10.
2021. 455
Intrahoracie myxolipoma. F. C. 122 and 4. H.

Wells Am J Cancer 1933 xvin, 9 2

#### SURGERY OF THE ABDOMEN

#### Abdominal Wall and Perstoneum

Accidental heroux and the new compensation act. J RRAIO M d. Ibers 1933 X 300 Congenital umbilical h mia E FRESHMAN Lan et

1943 CCEEV GI Lostoperative abdominal hernia. Z. Slawinski a d W Ostrowski Polski Przegl chir 1933 ku, i

W OSTROWSKY Polsli Przeg! chir 1935 XII, 1
VOULD in a hermated ac. L. P. Markayschin; Arch.
§ kl. n. Chir. 1933 clixi. 366
Strangulated h. min in associ ton with diracontias 3 and
hydrocele. W. E. Trouvisov. Brit. W. J. 1933 is 528

L tires bernia a Meckels dericulum in a horma sac, with port of a case S.C. Lived. Ohio State V. J. 1933 1111 549. Recurrent adenosition in a liparotomy scar. M. Verse.

Arch, f path Anat. 1933 clerent 186 Lucap ulating petiton its. Bertrasu and Coiso

Lyon chir 1933 xxx, 501

Three cases of encapsulate g or neapsulated chronic tuberculous pentonitis LEERTIN Ly n ch. 933 xxx
273

The six hou toent en picture in cales of tubercul us pent in us. M. See Esses. Schweiz, med. Wichn chr.

Fundamy some pentones. F. L. Melenes. Ann. Surg. 1933 xxxiii 45.
Primary echinococcus cyst. f. the omentum. ( CARLI.

#### Gastro Intestinal Tract

Roents nography study f the digests tract 1. Cirove Semana to d. 1933 xt 354

Linch 1933 12 829

Koentgenograph c study of the directive tract. E & Louisiers and L L Regulation Sem named. 933 xl

Poentgenological xamin to not the director tracts of infants and children L T LEWALD Radiology 1933

Rountgenological diagno is frome of the less common intercording of the digest estract. B. R. Kerken, J. Lancet, 933 h. 408

J. Lancet, 933 h. 408

Loreign bodies in the direction tract. Gambon Soc. de

Foreign bodies in the direct tract. General Social Circuit de Buen's Aires, 1933 X 1,773

Foreign bodies in the direct tract. A. Genterrez, I regal bodies in the direct tract. A. Genterrez, I regal bodies of the track of the t

A ZEVO and O CAMES. Soc. de cirug d' Bienos Aires
1033 Ft 1 82
Carcino d tumors of the gastro-interimal tract. T

RAIFORD Am. ] Cancer 1933 x 111, 803 [3"
Gz trophotography Gazen and Bernas Lyon that
1033 xxx 5%

I escutation i gastrophotographs. Garr and Bern 1 Lyon chir 933 xxx 45

Experimental contribut n on per talas from observa 1 ns th ou h an abdominal wind w n the rabbit. E. SCHOOM A ta h rurg Scand. 1933 lessu \$4 Areport of e encases I partial the rece temach with the coopean I P. Montesores and S. K. Most Company Proc. Roy. Soc. Med. Lond. 933. res. 4. The timity of gastine disorders. A. F. Henney.

1933 1 30 [3]
A bl rhydna. L Schirr J Med Cinemani, 1933 n
350
Chronic scid di turbances of the stomach and ib 1 s.r.

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Pyl ric obstruction a roenigenological stud M Fruncia Am. J Surg 933 XXI. 3 6

Ome tal band obstrut in the pylorus. C. J. MAGGYRE
JR. Ann. Surg. 1933 xevin 46
Congenital h pertrophic pyl ric st nosi. treatment 3

Congenital h pertrophic pyl ric st noss treatrent i accidental peri ration of the mucosa d nn th Ramm tedt operati n. O F Lauson Surg Gynec & Obst., o33 l'n 398

Rupture of the t mach by seduem hearbonate Histanann-Soughers and Kasteria. Med W It, 1933 p 450
Two rare types I hemorrhage from the crophagus and tomach. Seguet roome Frankfurt. Zische I Path. 1933 R1 57
Fallemonous gastris as a complication of scall their

J BEDRA and Z PRIKEY, Zentralld f Chu 933 P

1 4.
The dagn sis and treatment f gastroob fittle.

C Coureer P helia. Rome 1933 xl, sex chir 430
Ga trocutaneous fist la Jos x Soc. de crug d
Buenos Aires 933 xvii z
Experimental peptic alc r Fovr r x Lyon chir 1933

The acid base balance a gastric and d od nal uler J C Orre a Med Riera, 1933 xvii 245

The pathogenesis figurest likes coordings to the sations of Andress. G. Bratzanos, E. II. et miss. Soc. and d. b. p. d. Par. 1933, and 500.

The des lopment, nature and treation at figurest and duodenal u.f. a. Likewick, Press med. Pa. 933, all.

duodenal ul r k. LERICHE Presse med. Pa. 933, xli.

Licer of the stomach and fatal harmorrhage. Partit and

Liker of the stomach and fatal hamorrhage. Partit and Dr. Jacquers Lyon chir 033 xxx 449 Ulce of th 1 mach and fatal hamorrhage Textex 1. Cla Tr. Laton chir 1033 xxx. 4

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om co sideratio f th probabl exciting factor in perf raired pepts fee J K REEMA. J Indiana Case M 48. 033 xxv1 40 Furth observations on the abuse of radiology in the

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Acute pe forated peptic ulcers G K Rhodes dD C College C Homa & We t M d 1933 xxx t 73

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1033 XXIX 227 Fourte n cases of intestinal obstructio DUROSPILE Bull tm m Soc nat. d chr 1933 lix Ac te inte tinal bstruction C BARON Kentucky

M I 1933 XXXI 44 Acute intestinal obstruction Ninth installment M A [39]

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Vi Golos Rad ology 933 xxi 27 Vol ulus of a mega lon. P LOCKHART MUNICERY Proc. R y Soc. Med. Lond. 933 Ext. 45 D ticula of th col n and the complications, R.

Bruck Arch f klin Chir 913 cleav 14 Malign at disease of the col n. H B STONE But. M J 1033 XXXIX 14

Carcinoma f the col n in a girl aged se enteen years C. JOLL Proc Roy Soc. Med Lond 1933 EXVI 14 1 Dem trations of c lon survery Sattersation Zen 933 p 888 tralbt. f Chi

I tulu of the carcal gle P LOCKHART MUNERY Proc. Roy Soc Med. Lond. 1033 XX 445 Partial prolap e of the carcum ileum and ppendix

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Vied Lond. 933 22V1 4,2 The delayed typhlitis due t ppend citis. J FIOLLE F Lucciovi and H Liucua. J de Chir 1933 alu 7 The roentge I gical dia mosis of diseases if the appendix The results of 304 roomt en examinations and 154 appendectomics. K.E. HERLY Chirurg 1933 v

th appendix in pseud myroms penton i. G \u00e4Gr Arch f Gyn et 933 chu 3 0

Th obl terati ppendin as a cause f disturba es co nected with bdominal a rie and lymphatics. L Free MAN C l rad Med 933 exx 3 °
The chronic appendix. H. P. Maker. Mil. Surgeon

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1 Char 1033 cerror 7 2 Appendictus H A Lo ospore J Med Soc. \ew Jersey 1933 XXX 633 Avocadicates J K. Ríos Semana med. 933 tl. 492 Append citis i ch ldren. T Watcher Am. J S rg

1933 XX 39

Operati e technique and po i perati e i raiment f fulminatin appe d citis. J T McCay Ass. Georgia, 1933 XX 4, 327

Acute arp. di tis, problem H. Ri Stat M Ass. 1933 Ervi 329

Acute appendicitis to tre tment and m mat logo F A. Faz o Semana med. 10 Factors affecting mortal ty in acute appe Package Col rad Me! 933 xxx 3 2

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toneum K LOCOTHETOPULOS Ze tralal I Gynack. 1933 p 8 8 Int rnal facal fistula and death following ppendect in

M J PETTY Brit M J 1933 11,491 Unsuccessful appendicectomy A. Engrans. Lanct. 1933 CCXX 303

Current questi as in proctology C. Rosser J am M. Ass 1933 Ct, 1043 P riorations of the rectum by impalement. J Grisu.

Sanotten d' Strapp Re dechir l'ar sons lu 466

The cases and treatment frectal inco time ce. I P LOCKHART MUNICERY La cet, 933 ccrn 535
Rectos gmoudectomy as a method f treatm tf r procidentia recti. W. E. Milles. Proc. Roy Soc. Med. Lo. d., 933 XIVI 445

The tre tment of hamorrho do with injects n and surgery H T HAVES T ras Stat J M 933 rair 34
A plastic operation f c rtai types f harmorth ids
W A FANSLEZ and J K ANDERSO J im M iss

933 Ct, 1064. Larran ma of the ectum An anat micopathological study W Q Woop and D I D WILKIE Edinburk VI J 1933 xl, 3 [47] Carcin ma f the rectum and sigmoid with particular

refe enc to the disease as seen in yo th. II M REDDE. New England J Med. 913 ccrs 528
Abd manopenpeal excrs n of the rectum and modified Wertheim s operation f carcinoma, C. Joll. Proc. Roy

Soc. Med. Lond 933 xxx 14 1 The fo date a f tumo kn wledge. K & Hereric. 913 Le prig Kab tesch.

Th operate of \ uman Gowez, Soc. d cirug d B e os lutes 033 x1 47 4

#### Liver Gall Bladder Pancreas and Spleen

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Diagnostic in thod and in taboli studies in diease of the biliary tract. I Description fronting examination and discussion f a rmal tandards J R. Twiss d J L

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tott xx 366
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## GYNECOLOGY

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van 59 Metritis and metropathy PRtiz Pg de la clin.

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1933 xviii, 045 A wandering fib. d in the ector gin I septum J P A wandering no a in the error gin 1 september 1933 xxvi 463 One of the Joseph of Connect 1933 AAVI 403 VASCULAR distribution in fibrom ta VIIIARD WEILL and ROUGIER. Ly n chi Hemangi myohbroma f the uteru 933 XXX 469

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Surgical int rients in uterine carcinoma ext nding to the rectum. A HAMANT Bull Soc d but t d Ют с d Ра 933 жи 635

Rhabd myosarom f the orpus uter. C D Local Rayz Proc R y Soc Vid Lod 933 xx 4 0 Cervical ca terusat n unde param trial anasthesia. L BRAT Am J Obst & Gynec 1933 Ervi, 4 D bissen mess as f the c ross M M SHIR Am.

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#### External Genitalia

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The f rmat on f an artificial vagina by the method of Kirsch e and Wag r H KOEHLER Zent albl f Gynaek 1933 p 182

Ruptu e of the vag an due to cost s GUILLEMIN Bull Soc dolst et de gynec de Par 933 xxii 64 Trichom as aginal s agi it s II V HOLTER J

La sa M Soc 1933 x xiv 337 A case of t ich mona v g nalis vaginitis P Casano

Prog delachn Madrid 1933 x 1 5 8

31 T 1933 Ix v 74

A sp cific teatm nt f r t ichom nas agin ts J R COODALL Lancet 933 CCXVV 648

Epiden ol gy and p phyla s f g norrhoral vulvovagi t in children B Lestein Jah b f Kinde h

1933 C XXIX 23 A clucal r co l of fiftee ca s of prunt s v l æ 

Miscellaneous

A textbook of gyne logy R T von JASCHLE and O PANNON 1933 Berlin Springe Cy cologic I aspect of endoc inol gy E NOVAK

But M J 1933 x 553 Gynecol g c l aspects of endocrinology R W John

STOVE But M J 033 ii 557
The q est on of the site of f rmati n of e c ssi e hom es based transfl ntat on vperim ats with ad mata of th ate lobe of the hypophysi E. J.

ARAUS Klin Wehnsch 1933 1 47 The f ur major probl ms in gynecology B C Hirst \m \I \s 1933 c1 897

The nature of pe ods of a de ir in wom and their el tion to vulation O L TINKLEPALGE Am I Ob t A ( ) n c 933 xxv1 335 D' tu banc s of me stru ti n due to simple chlor

hydric anami R L Hapen and J M Singleron Am J Ob t & Gymec 933 xx 1 33
The p ten and min al metabol sm in I ucorrhora

M \ BRUECKNER \ ch f Gynaek 933 cl 89 The t e tme t of disturb ces in artificial me pause F Jayte Bru elles m d. 933 % 1247

O tian therapy in vasom t and n us d turbane ith m opa se M Fister Inh J M Sc 1933 No 92 478

1 oentge therapy i men pausal d turbances P CILBERT B Il Soc d obst et d gyne de l

Gynecological an males die to dil pm ntal dis-lar si Fi Cinay Tologram i dil Tijdichr t lar s F C VAN TONGEREN l rl k en Gyna c 1933 xxx 58

The p th I gt alch ges in positi f the f m le ge I hat the I ght f social gynec logic l tudies I C ( ELLE Achfiraeluk sttunfrsch 93 50

1 bulur ų ip lapse in a v rgin L E lec it Ze t albl. f Gyn ek 1933 P 22

A clinical semiological study of gynecological pain A BINET Rev franc de gynéc et d'obst 1933 XXVIII

The treatment of pain in gynecological conditions L M PIERRA Rev franc de gynéc et d'obst 1933 xxv u 563

The surgical treatment of pain in gynecology G Cotte Rev franc de gynéc et d obst 1933 xxv 1 640 D agnos s of the nature of the sou ce of intermenstru i hamor hage in the ut rus M WALTHARD Schweiz

med Wchnschr 033 1 408 The treatment of hamor hage due to ov mand turb nees with the h rmone of the corpus luteum I KNIB Zen

tralbl f Gynaek 1033 p 087 Postm nopausal hæm rhag M SCHULZE Calf in

& West Vied 933 XXIX 158
Anatomical re ults of the Logothetopul s m thod

stopp ng hamorrhage C Christopulos Zentralbl f Cynack 1933 p 807

The spread of 1 f ction from the uterin cer 1 to the unnary t act and the ascent of infect n fr m the l wer un ary tract t the k dneys H P WINSDER WHITE Birt J Ur 1 1933 v 249 Ech nococcus i f stat in in gynec 1 gy O MANSFELD and I LOERINCZ Orvosi hetal 933 p 353

The diag as and cure of g n ribora in the femal

JANSON Zischr f ger il To ibil 1 1933 x 296 Death from c ngenital lues with negati e ser in case of the mother H NEVINNY Zentralbl f Gynaek 1933 P 9 7

The t eatment f chronic infect on f the pel sac n sideration f the Fil oft method V S COUNSELLER I Am M Ass 1933 cl 9 6

Pyretherapy in 500 cases of infl mmatory d sease of the ge ital a J L Aiss and G PETTLER Magy A gylgy 1933 11 59

Interesti g findings na cas of he led perit n t s foll w 1 g perforat on of the uterus M LEDERER LEDERHAEND-LER Zentralbi f Gyna k 1933 p 94

Rectovag nal and es corectal fistulæ Corre I you ch r 1933 xxx 448

Met stat c tumor f the p l is BERARD and PENCELO Lyon chi 1933 xxx 591 Bre ner stum nd nd m trios s thei common i n

E G ABRAHAM Zentralbi f Gynaek 933 p Volum nous p eudosarcomatous tum d ve d vel pig n tissue of the s prarenal type n the vici ity of the ut rus R Desnoyers M Me er and P Istoor Gyn c et ob t

011 EXVIII 20 Sex ho mon therapy h PORTMAN Hosp Tid 1933

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The h nd in the bdom nal and pel ic ca ty in vaginal p rations A Cerreco Semana m(d 933 al 145 Spi al esthes a in a series f 300 abdomin l nd pel c perat s P N CHARBONNET Am J Ob t & Gynec

031 XX 1 4 Thec t uty of the germ pla m in man C POLITZER Ztsch f An t 1933 t 331

I hys) I gic I art ficial insemination C T Streets Am J Surg 1933 xx1 450 St ril ty in th 1 mal 11s recogniti d treatment f m tl modern standpoint. HASELHORST Tung Chi 1933

### ORSTUTRICS

### Presonancy and Its Complement

The protects not maternity Mirason Ach d. tet ginec 033 xl 445
The b logical diagn s of pregnancy I be Fitteet

Semana m d 933 1,535
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M Ass 933 ct 77 1 rare case of twin p egna cy S W LEE Chinese VI J 1933 xl 11 695

gnancy in dubl uterus I Barrist Ellas Ortoni hetil 1933 p 3
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corny rotated So degrees S. F. Brayers and D. Street Semana méd 933 zl 548

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Paradoxical rupt e of a tubal p gnancy A GROT Lyo chi 1033 xxx 587 G K THORNTO Lanc t A case of plac nta p at

933 CCXXV 593 A se re ase f central pl centa præ 1a. G NOLENS Brux lles med 935 xiu 1 17
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& Gyn c 933 xx 464 Th tr time tof plac ntap x m J Crostilla M gy

\ gy6gy 1933 H 57 Plac nta acc ta a e ew of the ht rat e and th e po t of tw personal cas s L E PRANEUT Surg Gymec

Cobst. 1933 1 11 343
Pla ntal tumor Vermenta and Lacour Bull. Soc dob t. et de gynéc de P 1 933 xu 647
The flect (vitamines administered t the mother pon

th fetu a d n whorn. BEN1 Arch. di o t t e ginec 1933 21 492

Death f th fetus in bi itelline t in p gua cy ] The bil gic I diagnosis of sex ; or 1 M V Arce fedicin mencana 933 tr 304
In et gati n n the p obl m of the diagn sis of sex
mith un fp egnant wom n. J Manger Deutsch

med. Webnschr 1933 1, 88 515

The effect of normal p egnancy of the gastron and in case of the gastro-intential trat. H. Gerrmany d. F. of the gastro-intential trat. H. of the gastro-intential trat. H. of the gastro-intential trat.

STREETER M n teschr I Geburtsh u Gyn k 933 Sodum br mid : b1:

med. 933 11 365

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d bst td gyn c.d Pr 1912 go coo Cl cl speriences with ch rea f THERE and G DOEDERLES ZING I Gh rich II Cynaek 1935 cs 342

The aplast c type f pern c us anamia f pregnancy T # 11 ports

the t I gy and treatment f pera cous like namus of p gn cy A Pont. Zisch f G burtsh u Gyna k ott c 186 Piel nephrits of p gnancy and ascandusis. L Wol CENSINGER. I du l m d et thir rots xxxv., 16

U teral cathet rism d pychu f preguancy E l

Wiseacut P esse med. P 1933 th 36

Th t mmas for chance I Report Once held

913 P 55 T arms fp egoancy a d is rate nalt to at 1.1 Marcovors d A D Amaral Rev Sud Am d m d t T ama of pegna y tre tm nt by f dim tata a d
dehyd at on I Lentres: \ w E zi d I Med 933

13 100 Toroc u nt fpegnancy S Leury Am J Obst.

& Gynec 933 xxvi, 44

Rec t ad ances in the tudy I th et logy and treat n at f eclampsia gravidarum J Horattia Am J

Obst & Gyn c 933 xxv1 3 1

E lamps a with abl ti plac nix and blood press re 1

nly no B L Gi roup M nesota Med 1033 x 1 5 8 R nal les ns 1 eclamp 1a nd n phrit s 1 p exnancy D B 1xD nd 1 S Dvv 1 Path & B cte 1 1933

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Gyn c 933 xxx 4 8 Diabetes d p gnancy A Evprag Ze tralbi. f Gypack quap ynack 933 p 4 Heart disease and p gnancy B I Jonesto z J

Michiga Stat M Soc 933 xxxii 479
Pegn ney ts en d half m nths seut ppe d c tr treptococcal perstonitis drainage admi istrati rum cco ry Morel d e G sa dier B II Soc d bst td go éc d P 933 xm, 6 6
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933 64 Mv m 6.1 d pegnancy 11 K E 'E Ze tralbl i Gynák 933 p 8 Sac ma fth utru mplicati g p egnancy M G D Bricke Am J Obst & Gynec 933 Er 457
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11, 558 Hemit legia a d tran it ry epil psy foll wi g induced abo tion probally due to ga eous embol m Frems shotz Micho Grand and Dept B Il See dobt et

the gynfe de Par 933 xx 636
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### Labor and Its Complications

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d kr n L 1033 x: 183 Prem ture rupt re of th membrane and its effect upon labor L W Mason Am J Obst & Gynec 933 xxvi

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Be s Aires 1933 xii 363 Artic lini cti n of labr t the end of p egnancy

L HOE ELWIN Med Welt 933 P 623 I duct noll bor by m ans of artife al rupt of m m

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ma f th rect m nd of th gina Il F Me rar Am J Obet & Cynec 933 X i 451

The application of a uni ersal joint to the objectical forceps. J Mann Am J Obst & Gynet 933 xxvi 399
Symphyse tomy in prim para D Iraeri S mana m d 1033 xl 304

Contract d p hy I eh ad pres ntat on symphyse tomy of Zir te W V Farsts Bol S c de obst y g nec de

Buenos 1 res 1933 XI 401 I mants of casa can sects nw thr ferenc to a personal ly recommended technical p or dure I Szrenco Magy

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I c stical st dy of I w cm a ean section with particular refe ence t suprapubic deli ry F M PETRI Presse méd Par 011 li 1200

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1933 XX 1 446 R e indicate as for tran pe it a al cervical casa can s cti n M PE LERT Zentralbl f G nack 933 p 1 30 Irred cable pr 1 pse f the cord with p longed su

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R ptur of the carsarean car in succ edi i, pregna cy W R Nicholson Am J Ob t & Gynec 1033 tr 1 38 A new m thod of c mbati g fetal a physia d ring pro-longed I b rs c mplic ted by obst tric l m new s D Trefororipès Bull Soc d' bet et de gyaée d' Pr 933 11 60 t

### Puerperium and Its Complications

An o three f the matern I hygie pr g mad the e ults fs years we L in Williamson County Tennessee W C WILLIAMS and F L BISHOP South M J 043 XX 1 782

Pu meral hamorrhage H Gocke Monat sch Gebuth u Gynaek 933 c 154 S m stat ties f postpa t m hem rrhag PECKHAM and L ALDER Am J Obst & Cynec 955 ¥T 361

Operati e tr atment f r erperal dise .es J FRIGYE i Orvosi hetil 1933 pp 213 36 Succes f l ei ligat on i pi purpe I pr O ORTH Zentralbl f Ch 933 P 384

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stung c se f hond odyst ph a fetal SZENTEH Or os hetal 1931 P 41

Ict rus gravis neonatorum and hydrops congenitus Stork Zentralbl i Gynaek 933 p 425

St plococci sept cam a of hematogenous origin in a newbort infant. J A Ritter and Rater J Am VI A 5 1933 t 1

The p ention of neonatal mortality A Brown Canadian M Ass J 1933 xxix 64

#### Vilscellaneous

Obstetries from the standpoint of the general practicioner C.T.F. N. C. R. Colorado Med. 1933 Ext. 338 Practical obstetries for students and plays cans. S.

HARMESCHIAG 1933 Stuttgart Ende
Obst trical pro lems of the country docto E E Davis

Il nois M J 933 km 204 Chineal report of the National Materiaty Ho p tal J F C WINGRAM J COFFEY and R. WEITE Irish J M

Sc 1933 No 92 453

Reports of the Rotunda Hospital. B Soldings R. N

Dow E. N. L. Seascer F. S. Bourke and C. L. Mc

Dowoon Irash J. I. S. 1933 No 9 283

Chinical Port of the Combo Lynng In Ho patal 933

Clutical r port of the Coombe Lying In Ho pital 931 J J Steart and D F HANLY Insh J M Sc 1933 No 92 38

A case of maternity at seven 3 are 1 age H Kran's Brit. M J 1033 is, 567 Experimental studies of the effect of the h rm ne of pregnancy n the fetus and the newborn L Litzka.

pregnance in the letus and the newborn G Litzea.

Zischr f Kinderh 19 3 h 74

The frequ ncy and obstetin al significance of rupture of gen tal varices W Settrer Zentralbl f Gynaek 1933

p 401 [52]
The hactenological study of unnary infection in preg

nancy and the puerpersum with special re er nee to the use of a urnarry antiseptic. The Brown South M J 1033 xx x, SS

4 contribution on the physiology and pathology of the gall bladder in p graincy labor in the puerperion, with special consideration of stone firms in d in three periods. W SCHLETER, Frischer Roentgenstr 1971 311 44

Hydrops uni ersalis fetus et placente and i terus gra in neonatorum. J. C. Beker and J. H. Saidt van Orlotz Nederl Tijdschr. v. Geneesk. 1933. p. 1545

Chonomer thehoms metroms indometrious, and in dometrious is P E Borkis and J V Bento r Valario Semans med 1933 il 745 and J V Bento r Valario The effect of camphor on the lactating breast J Ross.

The effect of campbor on the lactating breast | Rose, BLATT Zentraible f Cyana k. 1933 p 1 90 Buth Control on introduction | Long Women Pro

Birth control an introduction. Lord Honora Practitioner 1933 caxes 225
The ethics of birth control. E. A. Buarro. Practice.

1933 CXXII 239

Is the practice of contracepts a injurious to be lib

E HOLLAND Practitioner 1933 coun 4
Th choice of a contracepti e C P Blacker Practition 1932 coun 4

Contrace; it e methods. A description of a museum in the London School of Hygone and Topical Medicine C I B Nove Practitio et 1933 cmx 208

Birth control in practice. E F GRIFFITH and H. WRIGHT I ractition 1 1933 cran, 2 8 Notes from a mall by the control center A. L. L. Robon

Practitum re 1933 carri 86
Concent to artificial abortion. R. T. Jiscenze Zenoult.
f Gyna k 1933 p 8 0

### GENITO-URINARY SURGERY

Adrenal Kidney and Ureter

C rtan functions of the adrenal cortex. F A Harr
uts New England J Med. 1933 ccu, 480
Intrapentoneal protes on 6 the voluminous hyper

nephrona Nora J durol m d et hir 1933 xxxx 156
Unrecognized hypernephrona nephrectomy V Crisrot. J durol med et chir 1933 xxxx 156
Cristola J durol med A L Maria San A Mari

TOL. J durol. med. et chir 1933 xxxv: 195 A simple test of renal effi mec; A M Lilian and C P Srewart Educburgh M J 1933 xl 491 R naf function tests. E 4132 luguma M M ath

R nai function tests. E 113E Vaguesa W W nth 1033 kt 34
bupplantatio of rnai function by the skin. PASTEAT and Boy J durol med. t chir. 933 xxxxx 83
Th g n s 1 the Ludney L D xxxxx Arch. d mal. d.

r ins et d'organ's génito-unaures 1933 il 437.
The kidney pet es in unal araziona in their chape and
flow with possible pathels (real signatures D K Rore
W F Hairi S Moore and H M Wilso Surg Gynec
KOb't 933 l' 11?
Two Lin mmon renal condition E Ensita feta

h rurg Scand 931 km 16 The operat on of Papin in painful traumatized kidneys. T STORMARKY Bruzelles-med, 1933 km 1148

1 STORMARS TO DEMONSTRATE THE TABLE TO STORMARS A CONTINUOUS TO to the Study f was unreteral anomalies.
T BY SCHELE Ly nebr 931 xxx 38 [54]
Letterick diney a case report. A Bossio Arch stal di

n J 633 x 443
A d mon tratu n f normal and pathological nephroptosi H H WEAR, Colorado Med 1033 xxx 333
Di erticulum f the renal pel 1s. C A WELLS Bnt J Urol 1031 y 268 Hydronephrosis in child of inhteen months desc dieg prel graphy A Astrain and E A Berrenzvior J durol med et chir 033 xxxvi 180

Ret ntion f the right kidney simulating becess f the appendix and gall bladder & Nisto I licha R me 1933 at see prat 14 8
A contribution t the study of intrarenal absorption.

P VERSIER J durol med t chur 933 xxxx, 1

The etvology and pathology f rehal infection. W.J. Casso- W. iscon. in M.J. 1943 extin. 91
Studies of urmary acidifiers and sn.-septica in relati n1 pyelitis and cystitis. D.R. Mirreitti and J. M. Sort Brit. J. U. 1. 933

Intra end uro-raphy in renal tuberculosis. M. R. Dievytes J d. ol. med. et chir. 1933 xxxxx, it Localization of renal tuberculosis by intra e ous pre log-raphy in cases in which cystoscopy is urpos like. I

CIFTE TES Actas Soc d cing de Madrid 1933 u 81.

A case of primary that tuberculous with at functional deficiency C M LEPOx Polichin R m 1933 xl, set

denote the C M LEFOL Pouchin K m 1933 M, we pract 14 4
Tuberculous nephritis and tuberculous back unit. Ps thology and back in Day F Liennerman and T lifts.

J Levi 933 srx 1
Typhold pronephio is with report of a case P J
Rymn and H J Bil citian J Levi 1933 srx 197
Bacallas proteus p) nephross with blood infects in A
r new of the Literature and e-port i a case with overa
tion and recovery D Walackerste and A B Han

THOR T. 1 Crol 1933 IN 27

Consid rations on some cases of bilat ral reno u ete al I tha a nd lithia a in a solitary kidn y A CTRILLO Clin chir 1933 ix 572 [55] A case of cystic ki hey K Bujvewirson. Ztschr f

r 1 1022 KTV1 310 Polycystic disease in a premature infant H G BEESON

J Urol 1933 xxx 185 Echnococcus c; t of the kidneys V Blew Ztschr f

u ol Chi 933 xxx11 46 La ge infa cts of the kidney pre enti g clin cal gns of neonlasm D hi Enpartit I du ol med tehr 1933

Tumors of the r nal p l is a report f two ca es A JACOBS Brit. J U ol 1933 V 271

Vescaltum sandren lifuncti n A Santaetta M d Ibera 033 XVI 2 7

kerat nizing embry nal n phroma of the kid eys of the ch ken. W II FELDMAN and C OLSON IR Am J C ncer 1933 x1 47

Important su gical dise ses of the kidney E LIER 933 Muni h Gm lin The 1 tive acts ty f arrous ports as f the exc sed u ter f th dog P P T We J Urol 933 xxx 3 7

An maly of the u ter clin cal and pathol g cal tudy of f ur cases I double ureter & CIRILLO Chin chir 1933

X 7 3 Contribute n on the surgical te atment of the pain synd mes due to m lform to s a d dyskinesia of th pyel> ret al app ratu associ t d with malf rmations f the l mb sacral spine G Barbera Arch stal di urol 913 x 405

Dlatat on f th ur te HEIMBERGER Med Wilt 1933 p 665 The pharmacolor cally so of drug t eatment I pasm of the u ter or bladder and f u teral stone K SAMAAN Brit J Ur L 1933 13 156 [56] nt J Ur 1. 1933 13 [56] R d olow call st dy of ureterocele R Rossowi Arch

ital d ur 1 1933 x 403
Colored to C pa aduluret ral fi tula Villago Ly n

chir 1933 xx 495
Ob rati s n ureteral lithiasis S Polando J
d l m d tchi 933 xxxvi 45
Sterii t n furet ral sounds G Olivieri Rif ma

m d 933 lt 00 Implintate of the ur tesanth kin ne talert ma t ith in ry bidde i O H.z. off and J J. Truer izf J durol mid tich 1933 xxx 473 1933 XXX 473 1571 C C III cixs tom

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### Bladder Uretl ra and Penis

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P of rat n 1th un ry bladd r ly a pel abscess
P of rat n 1th un ry bladd r ly a pel abscess
D 1 hackstrow J Url 933 xxx 20 [58]
Enorm 8 impacted esical tone La x 107 J durol med et chi 1933 xxx 1 2

Perivesicular fibromyoma a benign tumor with acute manifestations E R FURGASON J hansas M Soc 1933 XXXIV 340 Spontaneous fragm ntation of vesical tumors

BERNARDINI Arch ital di ol 1933 x 404 A primary bl dder carcinoma within the scr turn G CARROLL and R G JACOBS J Ur L 1933 XXX 357

N edl s in th deep urethra stone and perior th al abseess M F CAMPBELL Am I Surg 1933 XXI 452

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31 4 Ureteral tran plantation by the m thod of Coffey and Mayo in inoperable ca c noma of theu thra R SCH VEICL

Zentralbl f Cyn ek 033 p 1035 Cutaneous horns of the pen's II II GOLDSTEIN J

Urol. 1933 EXX 367
Raphi I cyst of the pens. J. R. PRALLEN Acde 1 Tidschr Ge idschr Ge sk 933 p 1784 [58] Carcinom of the pe s in 5 am T P Noble Brit [ 1581 U ol 933 v 24

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### Genital Organs

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u L 1011 IX 1 310 Polycyst c disease in a premature infant H G BEESON

Urol. 1933 XXX 285 Lehinococcus cyst of the kidneys \ Billy Lischr f

ur! Chr 1933 XXXV 46

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Linorum impacted t cal stone 1 sees yr J durel mid et chir 1913 xxxva 22

Perives cular fibromyoma a ben gn tumor with ac t manifestations E.R. FLEGASON I Kansas VI Soc 1933 XXX1 349 Spontaneous f agmentation of ves cal tumors

REPLANDING Arch It I diurol 1933 x 494 I primary bladd r c rein ma within the scrotum G

CARROLLand R G JACORS J Utol 1933 XXX 357 Needles in the deep prethra stone and penu thral abscess M I CAMPBELL Am. J Surv 1933 1 4 2

Traumat c stricture of the urethr with second ry cal cul us format o J CANADAS Med Ibera 033 XVII

The treatment of wrethral strictu es of small caliber by a n w method P eliminary r po t L W Rist d I E SANNE | Urol 933 xxx 361

Hypospadi operated upon by the meth d of Beck Herrer. Zent lbl f Chi 1933 p 318 The valu of pitseptes in ur thral la age P Bar

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Tran urethral pro tat c sect n tech squ de ult in 05 a es C J Thompson im J S rg 1933 xx1

Indoscop resect nofth prostate pese t t n file resectoscope I lares J durol med t chr 1933 14, 210

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and Herre Lyon chir 933 xxx 455
Scrotal g gene f llowing clo ed operatin for hyd ocele. L. W. Riba. Am J Su g 933 xx 448

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#### Miscellaneous

Apotheosis of rology G R. Livermore I Urol. 20 2, 22 2 2 Th anamn sis of ology A OLEVEDO Med rv

Enexicatia, 1033 XII 433 Loternia d chloropæ ia L Amband J Stant, a d D Krminany Arch d. mal. d re set d reanese nito-EDDE, PC 03 Vt 465

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HAMMOND Pract ti e 1933 exxx 206 The d gn s a d treatm t of unnary bilbars as Perits Arch d mal d reins t d, orga es génito-

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t bercul s S.J. Parkis Arch. d. m.l.d. reins t.d. 0

ga es e nito-uma res 1011 + 471 Experimental tuboves cal a d ureterotubal tube culous

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1033 XX 11 00 Lymph granuloma mount le th fo rth e creal disease its r lat n to stricture I th rectum H. \ Cole I Am. M As 933 c1 1069

The technic e of rad cal rem al of th inguinal lymph glands E Domanie Zentralbl f Chr 033 p 686 An wishi ldfra bak lite sheath MA Nicholso J Urol. 933 xxx 379

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### Cond tions of the Bones Joints Muscles Tendons Etc

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Am J Canc 933 xiz 65
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The diagn 1 of chronic arthritis. D Boyn Illinois. If y 33 last y 9

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J Med Ass Georgia 1933 xxi 332
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1933 lxi 237 Lymph tedra n cof joints J G Kuras Arch Surg

1933 x 1 34 [60] The t atment of suppu at earthritisd to the streptococcu by sample punctur and lavage with ra anol. D I Micharlowsky Bull et m m Soc nat de chir 1933 l't

Met bolic and therape to tud sin the myopathies with spicial fer nee to glyer e administration M M HARRI and E BRAND J Am M A 1933 et 1047 Experime tal st dy and technical and at on a h sta

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1935 11 216 The radi graph c appe rances in spondyl l thes s. G A G MITCHELL Brit J Radi 1 1933 1 5 3

Clinical studies in the pathology of b e II Localized unilateral spondylitis D M GREI Edinburgh M I

1013 31.413 A benign form of ost omyelitis f th spine A DEF

SMIH J Am M Ass 1933 Ct 335
The pathology I tuberculous spondyl us M MANDEL STANK A h f ki n Chir 1033 cixxiv 685

A c se f syphilitic spondyl tis A W Gill and A D FRAZER BRIL M I 1933 1 606 Ve tehral Ewi g sarcoma TAVERNIER Lyon hi

1933 XXX 6 4 Def rmin a thr s s f the cervical vertebra R MFN BOECE Be tr z klin Chir 913 cl 1 440

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## INTERNATIONAL ABSTRACT OF SURGERY

FURRILARY 1934

### ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Recurrent Dislocation of the Jaw

~ J 1S z 1933 Mayer describes a new operation for the cure of intractable slipping of the temporomandibular joint. It consists in the formation of a bone block just anterior to the eminentia articularis of the tem poral bone to prevent forward sliding of the condylar

process of the mandible The symptom of true intra articular disturbance

Mayer L

of the jaw joint usually consist of a snarping sensa tion pain and locking of the joint. These are due either to a true dislocation or an internal derange ment usually associated with abnormality of the interarricular fibrocarrilage. In the latter type there is abnormal laxity of the cartilage. This may be cured by removal of the meny cus just as is done in the knee joint. One such case a reported

In cases of true dislocation of the law there is shallowness of the temporal fossa which allows the coudyle to rise forward from it over the eminentia art cularis. The author's operation i carried out under local anasthe in. The posterior portion of the Exponentic process of er the affected joint is exposed by a horizontal inci ion which is extended poste noth over the pinns of the ear. One inch of the process is resected ca e being taken to pre ent in lu y of the branches of the facial nerve. The cap sule of the joint i opened and the movements of the sliding condyle and cirtilage are observed as the patient opens his mouth. The cartilage 1 usually removed and the resected bone used as a graft by inserting it into a vertical groove cut in the temporal bone ju t anterior to the em nentia articulari effect of the bone block is then studied as the patient again opens his mouth. The cansule is closed care fully On completion of the operation a plaster helmet entirely encasing the head is applied for from four to six weeks

The author reports three cases n which this opera tion resulted in cure MAI PICE M VE S M D

Gray W A The Ocular Conditions in Diabetes Wellitus B i J Ophih 1933 v 577

The incidence of retinitis vitreous harmorrhage and ocular palsies was determined in 500 cases of diabetes mellitus, and the incidence of atteriosclero. sis of the retinal arteries and cataract trable on onhthalmoscopic examination in 288. The state and reactions of the pupils were investigated in a cases of coma 21 cases of hypoglycemia (following an overdose of insulin) and 20 cases of diabetes mellitus with marked acidosis. In the cases of diabetic roma the intra ocular tension vias recorded. In an additional So cases of diabetes mellitus an examination was made under full mydnasis with the Gull trand sht lamp to determine whether the incidence of cata ract and early lens changes is higher in diabetics than in persons without diabetes. Altogether, 582 diabet ics were examined. True diabetic cataract vias found in only 2

With regard to arteriosclerosis of the retinal vesels the a ithor draws the following conclusions

The incidence of retinal sclerosis increases with

2 4 definite relationship exists between arterio sclerosis of the retina and arteriosclerosis in other part of the body

3 Even slight evidence of vessel change in the retina is important since it is highly probable that more pronounced changes may be present elsey here From his study of 66 cases of retinitis found in soo cases of diabetes Gray concludes as follows

A characteristic form of retinitis 1 Common in diabetes. It begins in the central part of the retina as whitish vellow spots

2 The small amount of sclerosis of the retinal vessels is an important point of differentiation from retinitis of other origin

3 Hamorrhages may be due to a toxin caus ng changes in the vessels or to hypertension The latter

1 probably a secondary mechanical factor

With regard to pupillary changes in diabetes the author states that the size of the pupil in coma 1 not characteristic and that he observed no change in the pupil in hypoglycamia

The changes in the vitreous in diabetes led to the

following conclusions

r A reduction in intra-ocular tension occurs in a large percentage of cases of diabetic coma

2 The decrease in the eye pressure occurs after vomiting and the development of respirators dis turbances

3 The cause seems to be a d turbance of the molecular concentrations of the tissue fluids and blood following the acidosis and dehydration

The effect of insulin on the intra-ocular pressure was studed in (1) 4 cases halanced on due (1) 4 cases balanced on enterope cases (4) 4 new cases below and offer the administration of insulin and (5) cases in which the condition became worse under dietary treatment but bit anced under insulin treatment. No case of glucomawas seen. No difference could be found in cases of hypergly carma. The continued administration of until of the could be counted to the counter of the could be countered to the counter of the counter of the counter of the sound to the same as in diabetters.

If the intra ocular tension is changed either by hypergly camma or by insulin changes should be noted in (i) progressive cases of diabetes () new cases before and after the administration of insulin and (3) cases in which insulin treatment i di continued

An overdose of insulin produces a condition which closely resembles coma Since softnes of the eyeball traditionally associated with diabetic coma its ab ence in hypernisulin coma would be of consider.

able diagnostic importance From his studies of vitreous hamorrhage the

author draws the following conclusions

1. Vitreous hæmorrhage has been found constant
ly associated with an infective focus somewhere in

the body
2 The amount of hamorrhage may be dependent
on the condition of the vitreous and the retinal

tes el
3 Hypertension in the retinal vessel is usually
found in cases of vitreous hæmorrhage

In di cuss ng lens changes France in 1837 point do do tit hat a rapidy increasing bilateral opacity of the lens is characteristic of diabetes. Patients with such changes are young and suffering from a faul secret form of diabetes. Among the cases stude dib the author there were 2 such cases—one that of a man twenty six years of age who had been diabetes for five years and the other that of a girl seventier years of age whose sight first became affected two years after the onset of diabetes.

The value of insulin in ophthalmic as well as othe operations was early recognized Today the progness of cataract needings and extractions is as favorable in the cases of diabetics as in those of

persons without diabetes

In 2 of the author s cases of ocular nears pure, associated with debets the bird near was affected. The patients were sixty and sarty three years of agreement of the patients were sixty and sarty three years of agreement of the petricipal of the petricipal of the petricipal of the other had received insulin treatment for two verr. Both had arternoiclerous and one had although onest consisted of un lateral pions, we do do no noset consisted of un lateral pions, we do not straight of the properties of the month. The resulted in complete recovery

LE HEL McCov MD

Jul anelle L. A. and Harrison R. W. The Tran miss b lity of Trachoma to Monkeys. in J. Opl h. 1933 8.7

The eves of monkeys can be infected by material from human beings suffering from trachoms. The infection 1 transmitted equally well by wabbing and inject on The incubition period varies from five days to three weeks. Follides appear in a wet None has appeared on the bulbar conjunctiva or two and increa e in number for several weeks. None has appeared on the bulbar conjunctiva the carundle. The applicary for make the two carundle application is limited to the conjunctiva the one as 1 not involved. Uncern Nascort VID.

Kuznetskaja E D Trachoma T eatment with Chaulmoogra O 1 tr h Ophth 933 x,3 5

Delance in 19 6 was the first to suggest chail moogra of for the treatment of trachound in a period of eight years she used it in 25 000 case. However she was unable to determine the fault results of these have obtained successful results from this treatment but do not consider it a specific remedy for trachoms

Luznetshaya has used it in 25 cases representing all stages of trachoma. From these cases and a re

view of the literature he concludes
r Chaulmoogra oil can be used successfully mall
stares of trachoma

2 Patients react well to treatment with chall mongra oil because it is painless causes only slight ritation results in rapid disappearance of photophobas blepharospasm and catarrhal secretion and reduces the pannus

3 Ho ve er chaulmoogra oil is not specific let trachoma the treatment is long the results are not lastin and relapses have been observed. 4 The effect of chaulmoogra oil is due partly to

the method of application. The massage has a sale tary effect on the conjunctiva and pannus. Charles moore and pannus charles a sale tary effect on the conjunctiva and pannus.

moogra oil pos esses bactericidal properties.

5 Copper cha moograte (obtained by adding soda acids of saponified oil to copper salts) combined with 3 pe cent dextrin and used in the form of a

pencil does not give a lasting result and imitates the eve more than chaulmoogra oil 6. The eye tolerates better the unguent of chaul moorta coppe salt. This aids resolution of the patinus but does not give a lasting result.

LESUE L McCoy M.D.

I aborde S Epitheliomata of the Eyelids and Their Treatment With Radium (L to the liom's des paupières et l'ur tatement pradum) Pere méd Par 1933 li 1548

Physicians as a rule have hesitated to treat epi theliomata of the eyelids by irradiation because of fear of injuring the eves Cases of injury of the cornea and lens and of glaucoma following irradia

tion have been reporte !

However the author believes that when the proper techn que 1 employed the tissues of the eye are not e pecially sensitive to irradiation and partic ularly not to irradiation with radium. He prefers radium to the roentgen rays because the application of radium to the tumor can be more accurately con trolled Instead of the usual method of applying the rad um to the surface by mean of a mould of

ax or other material he employs radium puncture This method can be used even when the tumor i at the free border of the evelid or at the internal commi sure I aborde uses needles containing 2 mem of radium nitered through o s mm of plats num and varying in length according to the size of the tumor. The introduction of such needles is not difficult and no occlusion dressing is nece sary. The amount of radium employed often does not exceed 2 to 4 mgm and is generally applied in from three to five days. Only a single treatment should be given Insufficient and repeated irradiations cause the tumors to become resistant to the rays

Of sixteen epitheliomata in ading the bone which were s en by the author ele en had been irradiated el e there with insufficie it and frequently repeated

do es of roentren rays

Laborde has treated fifty 5 cases by the method The tumor disappeared in fifty he describes Cicatrization generally lea es no trace except slight pigmentation Slight deformity was seen only in cases in which the tumor was located on the free border of the evelid. There is no danger of late accidents in the use of the method

A DREY COSS MORG N M D

Gamble R C Acute Inflammation of the Orbit in Children 1 ch Ophth 9 3 493

The most common cause of acute inflammations of the orbit is disease of the sinuses but in some cases dacry ocy stitis an infection of the lid or brain abscess may be responsible. Is the mortality and morbidity of these conditions are high prompt and eff cient treatment is necessary The difference be tween orbital inflammations in children and adults is explained by the de eloping inuses and tooth buds the greater softness and better nours hment of the ti sues and the grater esi tance of the cornea in children

The author reports twenty six case of acute in flammations of the orb t in children Death oc curred in two cases involvement of the cornea in ino cases paresis of the external rectus in one case and paresis of the levator in one case

VIRGIL WESCOTT M D

Dobrzaniecki W. and Sowiakowski J. Tumors (f. the Orbit (Le t m urs d lor) it) J d ch 1933 xl1 20

The authors classify tumor of the orbit se n by them as follows

1 Tumors originating in the globe

2 Tumors arising in the bony wall and retrobul har tissues

3 Tumors arising from neighboring structures e teguments of the periorbital structures supe rior maxilla and frontal sinus and idiopathic protrusion of the eveball

Atresia of the orbit

Tumors of the eve and retrobulbar tissues com monly cause loss of sight scintillation diplopia difficulties in accommodation keratitis intipapilla dema loss of mo ement local pain head ache protru ion of the globe and protrusion of the orbital wall. Tumors of the eye are generally sar comata or melanosarcomata and are extremely mal gnant. They early involve the pretragal lymph nodes and sometimes the submaxillary nodes. The best treatment is enucleation follo ed by irrad a The prognosis 1 poor death commonly resulting from early extensive growth or late metastases

The classification of retrobulbar timor is diff. cult as there are many conditions inflammatory states and pseudotumors which simulate true tumors. In contrast to tumors of the eve retrobul bar tumors rarely involve the pretragal lymph nodes and frequently invade the submaxillary nodes They are commonly removed according to the method of Kroenlein (lateral approach) hich gives adequate exposure without great mutilation of the orbital contents. The result are generally

fairl good

In cases of tumors of the e elids the results of treatme t are unsatisfactors Metastases occur early in the disease and late after excision of the primary tumor Moreover removal of the growth is technically difficult as it frequently requires wide d ssection

In cases of tumors of the maxilla which are ren erally sarcomata the results are extremely dis couraging Mucoreles and cholesteatomata arising from the frontal sinus sometimes invade the orbit but may be removed with satisfactory results

The authors conclude their article vith a discus sion of a case of idiopathic protrusion if the globe in which two expl rations were negative and a cas of congenital atres a if the orbits ith absence of the eveballs IO VW LPTO MID

Hamby W B and Gardner W J The Treat ment of Pulsating Exophthalmos with the Re port of Two Cases 1 h 5 g 933 6 6

Pulsating exophthalmos is not common u wal history in cases of this condition is that of trauma follo ved by unconsciousness falure of vi sion proptosis and a roaring sound in the head. Autopsy reveals an opening in the internal carotid artery in the cavernous sinus. The usual method of treatment has been ligation of the internal carotid artery, but the complications and end results have led to the hope of a better method. At the site of involvement in this condition the usual treatment of aneurism is impossible and dangerous.

The authors attempted to treat two cases by the method proposed by Brooks In this procedure strips of muscle tissue are inserted into the artery and the blood stream to plug the fistula In the authors cases digital compression was practiced for several days before the operation. In the first case the operation was carried out succes fully. In the second the attempt to insert a muscle plug was un successful. The vessel was therefore ligated and cut the common carotid ligated and the incis on clo.ed Later the internal carotid was ligated through a frontal cramotomy and fourteen days after the cramotomy the carotids on the other side were ligated VIRGIL WESCOTT M D

#### \_..

Kopetzky S J and Almour R Empyema of the Petrous Apex Furthe Observations and Case R ports 4 n Oil Rh of & La y g I 1933 xin 80

Involvement of the petrous apex in pneumatized bones in a fix of types. It is either an active lesion with threatened meningal involvement or a chrone type of invasion without threatened men ngad in volvement. The chronic type gives rise to a chronic outriboa in a pneumatized temporal bone. In volvement of the petrous pyramid is a complication of tympane suppuration and not a complication of

mastod involvement. From rathological evidence the location of spon taneous fistulæ and the results obtained in both acute and chronic types of pertosal pyramid suppuration the authors conclude that the Almour sur goal technique is adequate for the establishment of drainage and the cure of suppuration of the pyramid which is lo acted in periodical bones. They state that by this technique no damage is done to the cochela facial nerve or carotid atterp.

GEOR E R. MCACLOF M D

### NOSE AND SINUSES

Proetz A W. Stud es of Nasal C lia in the Living Mammal A n Otol Rh 1 & Laryngol 933 xht 778

The author believes that the behavior of the cila in the noge and sunses is of importance in the defense against colds. As microscopic examination of the human sums luming thing life has not ben leasable he has made parallel studies of extripated human membranes and the membranes of living rabbits under direct vertical vision with a magnification of 124 diameters and a motion picture reduction permit repeated examination and debberate analysis.

Of twents two specimens removed at operation some from severth infected sinuses treent-one showed the cilia beating vigorously. Chinedly the most important observation is the effect of driving which causes the cilia to cease beating. The author believes that parinal closure of the mail chambers at her result of chilling local intration intestinal data that the country of the contraction of

### PHARYNX

Salinger S. Malignancies of the Upper Ai Pas sages A St tistical Review in Od Ri d & La yng i 933 xlin 8 9

The author reviews the results of treatment of malganary of the upper air passages as shown b a senes of reports in the German literature and can pares them with results obtuned in large medical centers which have been reported elsewhere Bestates that formerly there were many failures but the results have been unproved by earlier diagnoss, increased recognition of the radioensist ity of the various types of malganary and the new techniques of irradiation advanced by Coutard and Berne.

In cases of ep phara ageal neoplasms cu es were formethy rare but today with the Coutard method of protracted fractional \ ray irradiation a tonal magh good results are sometimes obtained. In the treatment of mailwanney of the sinuses and markla surgery is still used most frought the treatment of insulvanney of the sinuses and markla surgery is still used most frought the streatment of incoplasms of the epipharynx it has been found that acronomata and better results six obtained by the Coutard method than by the old teahmage. With the teleradium of Berren mag aney of the tonal was cured in 50 per of the larynx the use of the Coutard technique is followed by recording in firm 20 to 61 per cent of cases.

### GEO GER MCACLER MD

NECK

Beck A L A Study of Twenty Four Cases of Neck
Infect on 4st O 1 Rh 1 St La yated 1933
In 4

The author discusses especially deep pus in the neck. His article is based on twenty four cases of neck infection all except two of which were t eated surgically.

The site of entrance of the infection shalls be dermaned since when this is known it may be perible to anticipate the ourse of the unfection. The most common site of origin of neck infections is the innais and the next most common the pharyar. Of the cases reviewed fourteen (5.8 per cent) were due to tonsillar or pharvne cal inflammat ons and three to dental infection.

I roper treatment of infections of the neck requires a knowledge of the anatomy of the cervical fascia The author gives a detailed description of this anat omy base I on the work of Mosher

The surgical at 1 roaches for drainage of various sites of supi uration are ummarized briefly

1 I revertebral fascia infection or retrot haryn

real at ce s (a) direct incision of the pharyngeal wall through the mouth (b) incision along the an ten r bor ler of the sternomasto: I muscle lateral to the lirany as rec mmen le lbs Dean

2 I harvngomaxillary parotid and submaxillary stace infection (a) apr is ach through the submaxil lary stace after elevation of the gland as recommen! 11 Mosher (b) approach beneath the angle

I the ian breetly without elevati n of the glan I tarotil sheath and vi ceral fascia infection inci in all ng the anterior border of the sternomas

told mu cle as for jugular resection

a 1 a terior triangle infection, incision along of behin I the exsterior I rider of the stern mastoid

The complications occurring in the cases reviewe ! were thrombo is of the internal jugular vein blood stream infection demonstrate I by no itive cultures tur ture into the external au lit ry canal acute mas t if his with thromt is of the sigmoid sinu thle titis of the internal meular vein ithout the mbosis thrombo is I the internal jugular vein and caver nous inus thromlo i of seins of l th legs follos e l by af cess formation thrombosis of veins in the tight tile of the pelvi followed by pelvic abscess ab ce s of the bit joint bilateral h ke l lisk sec on its I rm trhage from years in the pharaneomaxillary pace exstitus parof the ninth tenth and eleventh crimiliner e paresi f the tvelfth cranial nerve and part is f the put llars thers of the cer scal syminthetic per e. The first ty o each occurredt ace and the ther once each

The finding show that lequate frain ge can be of tame I nly tir ugh the ext male ute If internal dramage does n. t bring al. ut immediate subsiden e. I the infect n an external in 1 n ho 11 be ma te

with ut I lay I blefite f the internal jugular cin with or ith it throml mi i ften p esent

Swelling of the lateral the nge I wall is an earl nic nt nt ign it n talwa accompaniedly rednes in some se th 15 r ngeal wall may be

One ith m t I mante I sensol infection t the throng naxlers ; ter mu The is ti t Il nting file int malit regoil mu cle by tieni r nginflammati n

Chill sweats and high rises in the temperature ate comm n mpt m The I not always require I im lar recert les the co tinue I r some days after the estal i hm nt falen te dramage Il w \cr th i m nd immedate atern I frairage of nive lapar

When the fient referred fir triatment the t ate mm at ga I ins were throat When

he is seen early the differentiation is sometimes difficult

The external swelling may be barely distinguish able Therefore it is no criterion of the necessity for external dramage. Absence of an external smelling does not contra in licate external drainage if sen is is resent. Infection of a fascial plane may be present without at ille exilence of our

The blood may remain negative dispute the exist ence of a phlebitis even when the blood to be culture I is withdrawn from the internal jugular yein

Cervical gland abscesses usually remain superficial and local zed. but occasionally the infection spreads along the layers of the deep fascia causing a change in the picture high necessitates drainage of the spaces invaded Infection of the prevertebral fa cia constitutes the

vell known con lition called retrophary ngeal ab When the case is seen early and draining is established before there is obstruction to breath ing recovery is prompt. If the condition is untreased feath results from asphyxia due to capping of the lary nx by the protruding posterior pharingeal vall rather than from extension of the infection into the chest

Torticollis from infection under the sternomastoid muscle is toward the opposite si le Torticollis from infection along the paravertebral muscle and trapezius is toward the same si le

The ears should be frequently inspected as there may be a coincident tympanomasto; i inflammation The sensis or septicopy amia may go on to a fatal termination without an apparent increa e in the sevents of the local manifestations

Ch lis are to be expected Blood for culture houl ! he taken furing or immediately after the first chill Blood cultures may become negative after the year becomes c rked by the thrombu

After the occurrence of thrombosis of the jugular ve n metastatic abscesses following thromboses in I stant seins are comm n

The author draws the following conclusions Jugular thromboses from infection in the planes

f the cervical fascia are g ing unrecognized and causing death from senturarmia 2 Al sence of frank local manifestati n of the

infects a notabl swelling is common 1 Delayed surgery is apt to be lisastr us

NO WAS C BELLOCK M D

McCarrison Sir R F and and Goiter T M J 211 1 6 1

The factors influencing the ize of the third I glan I are mult ple and have manifold interact re-They include hered tary int cences ind vil al ilia surera et age ser serual acti its pe chie fact is season local to altitule distance fr mith seac ust santam e ni tion ant tet Of these the mit important is fet. In Cra es fiseave a meat det is harmful t tith case not milks def itels bene final in rat g to can be profuced by sar let antimacme of these e venments gottere prot be presented by nodine. An excess of fat or calcum and a deficiency of vitamins 4 B or C are gottro gence. Polluted water is goitrogenic when taken alone or with an unbalanced diet but not when taken with a balanced diet. There is no incontrocettible evidence that nodine deficiency alone is the essential cause of goiter. In some localities where the old ne content of the soil is h goiter prevails whereas in some where the nodine content of the soil is low goiter is not prevailed.

PALL STAR M D

Waterwo th S J P Operat ve and Postopera ti e Treatment of Bad Risk Plus Four Toric

Gotter Weil J. St. (08 1 %G) at 1933 at 153. Watersorth classifies his 4+ poor risk cases of towe gotter into the following seven groups (1) actuely town cludius pointer usually in patients under usually inpatients over forty years of age (3) actuely town condular gotter usually inpatients over forty years of age (3) actuely too act gotter with morphications such as oral sepais sathma and ulter (4) atypical gotter with neuro-circulatory asthema which may not be benefited by operation (5) cases with mental deternication post solid) due to earchpalatis (6) gotter with dementia

praco and (7) intrathoracic goiter
All of Waterworth's patients are sent to the hospital for pre-operative study. Repeated readings of the basal metabolism are made after the administration of barbiturates. The patients who can then be sent home without risk are prepared at home by intensive nodinization bed rest and the administration of sed it to so over a period of two weeks. Longer preparation is useless. My accdematious and obese patients are given thy node extract and patients with hyperthy given this yould extract and patients with hyperthy are externations. When edemations they are given no assured and ammonium citation.

After two weeks the patients are re examined. A gain in we ght is a favorable sign and an increase in the basal metabolism an unfavorable sign. Pat ents with colds are not operated upon. The blood calcium is determined before operation.

Very all patients are kept in the hospital for preparation. Delinous patients are restrained and feel phasals catheter. Patients with pe sistent hypergly coming and glycosum are green small amounts of insulin. The quantity of flu d given is determined by the relation of intake to output but in oper cent glicoose may be administered int a choosily even to the property of the prope

When skin irritation develops after the use of barbiturates black wash is beneficial

The surgeon should watch for facal impaction and distention of the bladder. In the cases of manuscal patients who receive morphine and hyosome males with prostatic obstruction and all patients who are given large amounts of morphine an indwelling catheter is useful.

After operation all of the author's patients receive carbon dioxide and orygen inhalations at four hourly intervals. If cyanosis occurs they are placed in an oxygen tent and if stridor develops trached ony is done.

In five cases bilateral lavingeal nerve injury occurred. The best results were obtained her a laryngeal fistula was formed. Unilsteral injury of the laryngeal nerve causes hittle subsequent trouble. A pre operative laryngeal examination should be made routinely.

Borderline parathyroid tetany indicated b rest

lessness velds well to parathormone

If fresh nodules accompanied by toroity develop
after operation they should be injected with equal
parts of alrohol phenol and joidne unless they are
too close to the recurrent nerve. Cyste nodules
should be drained by needle. The injection of a few
drops of iodine into the cysts is helpful. You tou.

recurrent nodules yield to thyroid extract
F. S. Monrey, M.D.

Welt II The Surg 13 of the Parathyroids I The Surgleal Anatomy of the Parathyro ds The Significance of Calcarma The Syndrome of Hypoparathyroidism (La churge des parth des I A at me chaurgeal des parathyroides Sunficat on d la calciem Le yapt m d hypo

p "athyroth m) J I d h 93 3 1 5 1 In discussing the surgical nation of the parathy ro ds the author calls attention to the fact that ead gland is suppled by a single terminal artery which does not divide until after it enters the hilum of its gland. The intensor parathyrotids are always supplied by the inferior thyrotid artery. In 88 per ceed or cases the same artery supple is the signer parathyroids. In the remaining 1 per careful promite supercore thyrotid arter.

In the dog the removal of three parathyroids and in man the removal of one or two does not affect

the blood calcium

Acute postoperati e tetany can usually be co trolled by the adm nistration of calcium parathor mone thyroid extract combined with parathyroid

extract and antispasmodic drugs
In chonic tetani parathormone must be used
cauti usly s too large doses may dep ess the
pa ather discretion. Heliotherapy and Vitamin D

seem to have a favo able influence

The author gi es detailed directions for a oidan e
of the p rathy o d in ope ations on the thyro d

M BSR W POOLE M D

Ga dne II O Fractu es f the Laryar with the Report of a Case A h Oi I v gol 933 xvii

449

Heavilue so of the larynx are relatively infrequent tha autho was ble to collect only 156 cases from the literature. They occ r u ually in adults and more frequently in males than in females. Their infrequency is explained by the great mobility of the

larynx and the protection afforded the larynx by the ohin The most common cause is compression such es is produced by throttling or striking the neck in a fall. One or more of the cartilages may be affected The thyroid cartilage is broken most often and the

cricoid next most often

The symptoms are variable but usually consist of pain tenderness dyspnora hoarseness and bloody sputum Loss of consciousness is not uncommon Subcutaneous emphysema is frequent. The diag nosis is often difficult. The most important diag nostic sign are the emphysema and bloody sputum There may be deformity of the neck and crepitation The fracture may be revealed by roentgen ray exami

The prognosis is usually grave the mortality being about 30 per cent Death may occur immediately from asphysia or hemorrhage or later from infection pneumonia or emphysema Permanent hoarseness frequently results and stenosis of the larynx may

ensue

In mild cases palliative and expectant treatment may be indicated. Immediate tracheotomy may be necessary Some surgeons believe that tracheotomy is advisable in all cases. In selected cases laryingo fissure or laryngotomy may be indicated instead of tracheotomy

In the case reported by the author the fracture was caused by a blow on the neck sustained during a

boxing match Recovery followed drainage of an abscess and subsequent equestrectomy

LEO M ZIMMERMAN M D.

Myerson M C Cysts of the Laryny Arcl Of l ra gol 1033 Vn 281

Myerson reports three cases of cysts of the larvnx in one of which cystic mas es vere present also in the trachea

Four types of cysts are described congenital retention lymph or blood and traumatic or im plantation cysts Laryngeal cysts may occur at any age The smaller cysts are usually found on the vocal cord while the larger ones are most often attached to the epiglottis

The symptoms depend on the location and size of the cyst There may be varying degrees of hoarse

ness dyspacea stridor and dysphagia

The prognosis is grave in the cases of very young ratients and may be grave also in those of older patients if the cy t suddenly increa es in size

The treatment varies according to the size and location of the cyst and the age of the patient. In the cases of very young patients temporary relief ; afforded by puncture of the cyst wall with the cautery This keeps the cyst empty until the infant is able to tolerate its removal. Total removal is the only certain means of cure

IACOB M MORA M D

### SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Dusser de Barenne J G. Corticalization of Function and Functional Local zation in the Cer ebral Cortex 1r J Veurol & P h at 1933 xx 884

The author discusses corticalization of function giving the more recent chief physiological evidence for the shift of functional dominance as one

ascend the animal scale

In the cat and dog motor functions are rapidly, and almost completely restored after total extipts too of the cortex. The removal of a whole hern sphere results in very hitle more evidence of motor deficiency than is present after a circumscribed leann of the 8 notimotor area. In highest assimal such as the monkey the result is much more produced and profunced after removal of one hern sphere. This indicates that in the highest animal sphere. This indicates that in the highest animal sphere. This indicates that in the lightest animal sphere of mothly, In man animals releases are more profound and of longer duration but a sur rusning recovers of function may take bit a rusning recovery of function may take to be.

The increase in the functional importance of the motor cortex in higher animals 1 manifested also in stimulation experiments. More finely graded responses can be obtained in monker's from cortical stimulation than in cats and dogs. The terdence of recent stimulation experiments in monkeys and in man i to extend the electrically excitable foci of the cortex over the prec atral and po tcentral regions. A bilateral representation of motility in lower animals is indicated from certain ob ervations Bilateral movements may result from corti cal stimulation which normally gives rise only to unilateral responses. The same i true in the higher species such as the baboon After the cortical foot area on one side has been remo ed subsequent remo al of the econd foot area results in a distinct increase of motor impairment and a change in the Bab usks re ponse ob erved in the leg first affected

The sensors furctions of cutaneous and deep sensibility are continued in large cortical areas in the act and dog the sensors cost cal area to a great extent connotes with the electricallity extrable region indicating the entence in these species of a true sensormont field produce impairment of cutaneous continuity to touch pain and thermal stimule and also of deep sensibility. The former group of simple though a simple produced the continuity of the continui

central fasure a the boundary between a precental motor and a postcentral sensory area. Smart motor and a postcentral sensory area. Smart observations are to be saide a man. Precent lessors are not followed by a popuration scory aspects and postcentral lessors are not software to distinct motor impariment ex ept to afternot amount of attain. However, the author states that he are not the higher mammal; the conception must be modified as at least to the macacian, the recent centre is endowed with sensor, function cortex is endowed with sensor, functions.

The primary 'n ual coriex in mammal count's with the area strata and does not he on the convex its of the occupital lobe. In man bilateral destruction of the area trata results apparently in complete

blindness

The exact location and extent of the aud are corter has not as yet been satisfactorily determined. Cats are able to localine sounds following extination of the whole newcorter. Even in man with blut real total destruction of the auditory cortes (the middle portion of the first temporal gyrus and

Heschi s gyrus) there may remain t acts of audition
The cortical areas of oliactory and gustators func

tions in man are not definitely known

Frontal lobe lessons cause no defects in voluntary power but defective coord nature adjustment in the movements of the eyes and head locomotion and posture abnormal found in third to no lored gasping forced crying and cataleps has e been described. Loss or defects in appreciption me and on a spatial circulation are amon the most fire quantity respected symptom.

The antenor part of the panetal lobe has associations with sensation in man as in the monker Destruction of the poster; r part in man produces agnosia appara acalcula and defect in writing

and reading

The author concludes that the function of 1 100 in higher manual has become not continuated. This is sigge ted by (i) distinct rather sharp defined localization and stable feel tous between the persphery and the cortex (2) little or not 1 for of 1 into only orrelation between the area strain as it is subcortical center the external generation of the continuation o

For the seasonmour functions there is criteria suggest to another type of cortica organization () a mo e diffuse localization at lea t within the integer subdivisions of the sensor area (a) within the motor sphere distinct instability and that eability of functional relations between the cortical region and the body mu culturure (s) p obabit an instinate i ne toncal oriention between the cortical region and

its subcortical center the optic thalamus and (4) marked reparation of functional disturbances ROBERT ZOLLINGER M.D.

Bazett H C Alpers B J and Erb W H The Hypothalamus and Temperature Control

A h hear 1 & Ps that 1013 12 728

The modern literature dealing with temperature control shows a growing tendency to sernbe the main function of the control to the hypothalanus Hasama found that electrical mechanical or their main stimulation of the base of the hims between the copion manularia and a point slightly technical to the tuber currently causes thanges in solonidary the components of the state of the st

The evidence presented in this report supports the hypothesis of the importance of the hypothesis of the probabilistic region. The brain steats the state of the hypothesis of the importance of the hypothesis of the region. The properties of the state of the corpus stratum and thalamus Temperature control appeared to depend upon preservation of the hypothalamu just cephalas to the corpors amusullans an area including the noise surrounding the walls of the third ventrule and the infinitely state of the brain was preserved failed to show normal hyperpress when exposed to beta.

DA 1D JOHN IMPASTATO M D

Penfield W and Gage L Cerebral Localization of Ep leptic Manifestations A h V l & Psych 1 933 x 700

The authors have analyzed the pattern of the seizure in seventy five cases of focal epideps, and have attempted to reproduce these characteristic attacks by d rect sumulation of the disease I cortex of conscious patients on the operating table

They found that the most frequent lateralizing s gn is de ration of the head and eyes to the side opposite the hemisphere involved. Seizu es which have ther origin in the frontal lobe are usually characterized by loss of consciousness (without aura) and turn ne of the eyes bead and body to the opposite side followed by nearly simultaneous con vulsion of the opposite extremities falling and generalization of the attack. In seizures which arise in the precentral or postcentral girus con s lousness is usually lost late. A tingling sensation may follow a jacksonian march just as move ment follows in seizures arising in the frontal lobe Consciousness is ant to be lost late also in seizures aris ng anywhere behind the central sulcus and such seizures are of course ushered in by auras It must be remembered however that a major

attack may leave retrograde amnesia so that the aura is forgotten. Under such circumstances indairat may be remembered only in slight sensures which do not progress to generalization. Sensures which do not progress to generalization. Sensures originating in the supramarginal got us are characterized by a discontinuous twinking of lights seen in the contralateral field.

The contranates need to a superior distress may are common to a use of pain of of epigastric distress may are from activity of the cerebral cortex and cortical stimulation reproduces such sensory phenomena. The buzing sounds and the dizziness which are characteristic of unlateral temporal lobe sciences have been reproduced by electrical stimulation but the more complicated dream states and odors have never been reproduced perhaps because of the limitation of surgical approach.

Cerebral localization of epileptic manifestations is necessary for the interpretation of convulsive securers and is of obvious importance in cases in which radical therapeutic measures are indicated.

R. Giev Epiritiva, M.D.

Rowe S.N. Verified Tumor of the Temporal Lobe
A Critical Review of Fifty Two Cases 1rch
V of & Psych at 1933 xxx 824

There is no definite syndrome of disease of the temporal lobe Tumors of the temporal lobes produce a matture of signs and symptoms due to cor total irration of the temporal lobe compression of neighboring structures and increased intracranial pressure. Langues in the size and shape of the ven of the skull may be caused directly by the pressure of the mass or indirectly by the increased intracranial pressure and may be observed on rocatigen examination.

The sell recognized symptoms of damage to the temporal cortes—sphasis uncinate attacks and dreamy states—apparently do not occur in a h ph percentage of cases. Auditory abnormalities were found by the author to be more freewent. They consist in timutes auditory, hallocurations and inpair ment of hearing. The visual fields are of great imperitured to the state of the states are applied to the cases are applied to the case are applied to the cases are applied to the cases are applied to the case are applied to the case

Prominent among the symptoms were mental changes varying from changes of cor cousiness to mild personality changes. The mental changes do not have a characteristic form and are apparently due largely to in reaxed intracranial pressure.

Signs and symptoms of damage to the motor system as a result of pressure are important in the local zation of the tumors. In cases in which the lesion is situated at the base of the lobe pressure on the fifth or the third nerve occurs relatively frequently

David Park Inergritto M. D.

Deery E M A Further Study of Glioblastoma Multiforme B ll Ne I f I In ! Ne I k 1933 m 84

A series of twelve cases of gl oblastoma multiforme which came to autopsy and forty surgical specimens were studied by the author. On the basis of the histological evidence of malignancy, the cases were divided into two groups. In the autopsy maternal radial samples of the tumors from the center out to normal brain it sue were taken and subjected to spe ial b tological study. The bas c neoplastic elements composing the tumors from the neuro-ecto dermal cell to the astrocy te were reviewed.

On the bass of the predominant basic cell type found the tumors were did not three groups. The least differentiated and most malignant group were characterized by predominance of primitive neuro-ectodermal rells and spongoblasts the latter with numerous nuloses. The intermediate group of tumors showed predominance of older polar spongoblasts which had for the most part acheved fibral formation. In the most differentiated and least

malignant group astrocy to elements predominated In the cases of Group 1 the average duration of symptoms was nine and a half months in those of Group 2 seventeen and a half months and in those

of Group 3 forty three months

In order to obtain a closer correlat on between the pathological diagnosis and the clinical findings Deery urges that the histological index of malignancy of these tumors be given in the diagnosis

ROBERT ZOLINGER M.D.

keegan J J Chron c Subdural Hæmatoma Étiology and Treatm nt A ch S g 933

x 1 6 0 The author agrees with Trotter that the bleeding in cases of subdural hamatoma comes from torn veins running from the cerebral cortex to the supe rior longitudinal sinus. He believes that the forma tion of the blood clots is favored by shight trauma to the head which tears one or more of these vessels but is not sufficient to produce concussion or contusion of the brain with cedema and that more seve e traima i followed by cedema which compresses the bleeding points until thrombosis occurs' By this theory it i possible to explain why in cases of sendity in which the brain is atrophied and fallen away from the dura so that the veins are placed under tension insignificant trauma produces hæmo thage more easily than in normal persons and to account for the frequency of pachymeningitis has

In discussing the treatment Keegan recommends a trial of imple trephination and drainage unless an organized blood clot or some other factor necessitat ing wider exposure is disco-ered

morrhagica in psychiatric ho p tals

He reports five cases Leo W D mo r M D

### PERIPHERAL NERVES

Ganni E Late Results of Emergency Very Suture Esti lontan di n. rafi eseguit d g nza) Ch d o g d mor m 10 933 x

As a rule nerve suture has been rejected by military urgeous as its results have been poor. In the arm the results ha e been worse in the median and ulmar nerves than in the radial nerve. In military surgers, however condutions are quite different free those in civil practice. War wounds are large and contused very often infected and frequently not operated upon until neuromata have formed on the protumal or distal fragments of the nerves of or protunal or distal fragments of the nerves of or the control of the control of the control of the wounds are apt to be clean conditions being the efore more favorable for the success of sature

fore more tavorable for the success of suture.

Koch has advi ed aga nst suture of the median and ulnar nerves associated with suture of the ten dons and ligation of the ulnar artery in extens e wound of the wrist. He says the operation is useless and e en harmful a pain results from retraction of

the tendons and trutation of the nerves
The author reports the findings of re examination
of eight patients who were subjected to emergence
nerve suture from four to ten years ago. Function
was not absolutely restored to normal in any of
them but in six it was so nearly complete that the
natients can be considered cured. In the two others

there was great improvement

These cases show that nerve regeneration can be brought about by suture if the operation 1 per formed early before a terminal neurona has formed on the proximal stump. There is no differe ce in the prognoss of suture of different nerves 10 the case reported by the author the operation nor 0 the case of the suture of the case of the case of the case of the suture of the case o

Complete cure may be pre ented by cicatnoal retraction of the surrounding tissues The results are influenced also by age being better in young per sons than in old persons and by anatomical conditions which favor or retard the reconstruction and protection of the sutured nerve. As examples of the effect of such factors the author cites two cases I the first there was an extensive wound of the elbow with destruction of bone and in the second a simple incised wound of the forearm. Lure was much more complete in the first than in the second because in the former the nerve lay f ee in the muscles and did not become involved in the scar whereas in the latter the underlying bone made it impossible for the nerve to escape involvem at in the scar From these cases it is e ident that the most extensive wounds are not necessarily the most unfa orab e for recovery AUDREY CO MOR

### SYMPATHETIC NERVES

Ross J P Sympathectomy as An Experiment n Human Physiology E t J S g 933 xx 5

In the determination of the effects of ganglionectomy one of the most useful methods: I thorough in estigation of the blood flow through an arta. This can be accomplished best by determining skin temperatures with calibrated thermocouples. The patient may be placed in a cabinet with his hands

outque and exposed to a constant temperature of I deres C Is the cab net is a with warmed to so derrees C the arra will how a concomitant in crease in uso nam if they are normal and no i, crease if their yes el are organically disea ed

Ir arteries remoral of monathetic control resalts in marked dilatation with increa ed blood flox Some match later there may be a return of valo tonus which may be worse than before the opera tion. This may be due to simultaneous blocking of a sollators at the time of the operation.

7-30.Lators at the time of the operation.

The maller vessel attentioles and capillaries are controlled by the H ub tance which is liberated by the entry Incertain forms of causalga. H sub tance is liberated to a part through antifromic impulses with hersian, parinil sen ations the formation of herpetic vestels and trophic changes in the skin Sympathectomy cau es a greater blood flo which washes the offen I ne substance as as

Sympathectomy stops, weating in the kin nearly completel inhibits the follomotic mechanism at parentl causes definite musiclar cakee at h

gives rise to ocular symptom (II were syndrome) Overactivity of the vi ceral mivatleti > ciu c inhibition of the vi cu an increa e in the time of its

phinciers and con equent tax of it content This i believed to be the mechani m in Hirsch sprungs diea e which i often cured by vm nathectoms

Viceral pains of various types are connected with this system some types of pain in the lal ider are relieved by ection of the president nerve. Car line pain impules pa b vay of the sympathetics through the white rami communicante of the first three and possibly the first tive thorace nerve. In true ( asspirate) anging pect it ection I the energes is followed by relief of pain

lons W. Lens, M.D.

### SURGERY OF THE CHEST

### CREST WALL AND BREAST

Wainwright J M The Treatment of the Bleed ng Breast Am J C cer 1933 11 339

Two cases of bleeding breast are reported. In the first case the bleeding occurred for two months in the absence of a demonstrable tumor. Sections of the entire breast disclosed only a diffuse hyperplassa of the epithelium. In the second case hyperplassa of the synthesis of the same type was found but was less marked and occurred in only one area. Local excasion in the

second case was followed by cancer two years later
Of eleven cases of malionant disease of the breast
with bleeding the bleeding was the first sign noted

in eleven

Bleeding is not sufficient alone to warrant the
presumption that the lesson responsible for it is

of a malignant or benign Statistically the chances of a malignant or a benign lesion are about even The mo t common benign lesion causing bleeding

is duct papilloma

The author believes that no cases of bleeding of the breast which has occurred continuously or intermittently for a month safety demands removal of the bleeding tissue. If a palpable tumor is found local excision may suffice. If several tumors on a diffuse thickening can be felt or if no tumors can be demonstrated the entire breast should be removed All cases however treated should be kept under carteful observation.

N al M P Malignant Tumors of the Male Breast t ch Su g 933 xx u 4 7

Neal reports a statistical and histopathological study of 60 malignant tumors of the male breast The material was found among 117 or 6 surgical specimens 0.270 (70 oper cent) of which were main

specimens 9 279 (7 9 per cent) of which were mam many glands Three hundred and et ht (3.3 per cent) of the mammary glands were from males the ratio of male to female breasts being therefore 1 20 03

Of the lesions in the 308 male breasts 43 (46 42 per cent) were of a non neoplastic nature and 16, (33 63 p r cent) were neoplasms Of the latter 60 (10 48 per cent) were mahmant and (63 6 per

cent) were benign

Of the 60 mal guant tumors 50 (83 33 per cent) were carconomata and 10 (6 66 per cent) were sarcomata. Of the carconomata 8 (10 per cent) were of sakm origin and 42 (83 per cent) of duct or acinus origin. Of the sarcomata 5 (50 per cent) were of section of the sarcomata 5 (50 per cent) were fibroaccomata 1 (10 per cent) was a le omosarcoma 1 a liposarcoma 1 a liposarcoma 2 a liposarcoma 2 a liposarcoma 2 a liposarcoma 3 de conditional de consideration of the condition of the co

Neal reports a case in which tuberculosis of the

noma and a case of generalized carcinomatosis in cluding metastases to the suprarenal glands which caused bronzing of the skin

The pathological differences between malignate growths of the male and female breasts are differences of degree and ratuo of types rather than differences of Lind The growths of the male breat are midstanguashable from similar le ons found more commonly in the female breast. The only difference is a higher incidence of casts in the breasts of women.

sa anguer inclusive or cyst of the pressage of wome. Forty, six and forty two hundredths of the lesson in the male breast are non neoplastic processe; 14 or more than the male breast are non neoplastic more activation and the second temperature of per cent current and of the starcomata is of both wares. 24 per cent could not find a second to the second to the male Carcanoma is 80 times more frequent in the male breast that no the male breast whereas six come is 16 times more frequent in the male breast that no the female breast starto of carcanoma to sarcoma is 51 and in the female breast of a time of carcanoma to sarcoma is 51 and in the female breast of a time of carcanoma to sarcoma is 51 and in the female breast of a time of carcanoma to sarcoma is 51 and in the female breast of a time of carcanoma to sarcoma is 51 and in the female breast of a time of carcanoma to sarcoma is 51 and in the female breast of a time of carcanoma to sarcoma is 51 and in the female breast of a time of carcanoma to sarcoma is 51 and in the female breast of a time of carcanoma to sarcoma is 51 and in the female breast of a time of carcanoma to sarcoma is 51 and in the female breast the carcanoma to sarcoma is 51 and in the female breast the carcanoma to sarcoma is 51 and in the carcanoma to sarcoma is 51 and in the carcanoma to sarcoma to s

The youngest age at which carcinoma was found in the male breast was thirty years and the oldest, eighty nine years. The average age was fifty serve years. The corresponding ages for sarroma were twenty nine surty two and thirty nine a d seven tenths years.

The author lauds the American Colle e of S: geons for its standardized requirements for ho-pituls and laboratories as these will result in better and more extensive diagnoses of tissies and more dependable records JD TH MILEN MD

Mathew F S The Ten Year Survivors f Rad cal Mastectomy 4 S g 933 xc m 635

The author renews the end results obtained by added mastertomy performed in ris cases of care noma of the breast in the period from 103 to 023 Twenty-eight of the patients have surrived the operation by from ten to twenty years. The incidence of ten year survival is slightly over 2 per tent.

Mathews says that in spite of all the propagands with regard to the importance of early treatment it is doubtful whether patients come any earlier for operation today than they did fifteen or twenty years ago

In the cases he reviews the incidence of carmona was slighth lower in women who had borne children than in null pairs. According to his statistic carcinoma of the breast is no more fatal in young women than in older women.

Of most importance from the standpoint of prognosis is n of ement of the stillary nodes. Such n of ement bears no relation to the size of the tumor. The earlier the case is seen the more difficult a positive diagno is. In early cases biop y is necessary to determine the nature of the tumor Mathews prefers local remo al of the mass to mig on of the tumor or excession of the entire breast

In discus, ing Haagensen's histol gical graling of cancer of the breat. Mathews states that the graling of tum is with respect to the tumor cells rather than the troma is of prognostic value.

( DANIEL DELPRAT M D

### TRACHEA LUNGS AND PLEURA

Conte E and Costa A Angiopneumography
(La gi pneumograf ) Rad il m d 1933

In 1031 the authors made a preliminary report on vi valization of the essels of the lung by the in jection of rad o-opaque solutions into the right side of the heart from whence they enter the julmonary circulation directly This procedure wa introduced by Foremann Lathy experiments were usually un successful because injection of the then available liqui is into the heart usually un fer some pres ure -resulted in cardiac coll use and rendere I the jul monary structures only indistinctl 15 ble 11 w ever as the authors believed that d rect intra ardiac injecti as should be little more langerous than intravenous injections they persisted in their experiments. The used todine compounds preferably abrodil. They have devised a special needle which they insert into the hasilar yein f either arm and through which a No N ureteral catheter is passed into the he rt. The course of the catheter is followed while the patient is on a h rizontal fluoros ope When the catheter is in the right auricle the pat ent is placed in the standing pos ti n in front of a vertical to roscope an I the opaque solution : run in ranilly (in six or seven seconds) The only react n is a feel ing of warmth in the he d an t chest and occasi nally a slight transitors dull ng of sensors acuity witho t after-effects Typical ruentgenograms my le t v this method are shown and compare! 1th roentgeno grams taken by ordinary methods

The authors believe that the method described is contra indicated in the cases of patients with radiac disease especially those with pulmonary complications but is of alue when vascular distributions but is of alue when vascular distributions or josts are to be considered in the differential liagnosis if reflect the MID.

### Roles F C and Todd ( S Bronchiectasis B t M J 933 H 639

The authors attempt to shed light on the probable Prognoss of established cases of bronchectasis in a lating to their response to graded treatments. In a re tew of 100 pro ed cases which were under observation for a period ranging from the eto six observation for a period ranging from the eto six observation for a period ranging from the eto six observation for a period ranging from the eto observation for a period ranging from the eto observation for a period ranging from the eto design from the eto

A definite diagno i of bronchiectasis can be made only by means of lipiodol injections followed by lateral roentgen grams and or linary chest roent genograms

I htenicectomy was regarded as of doubtful value artificial pneumothorax as only an adjunct to lober tomy and thoracoplasty as indicated only in ad

r vanced unilateral disease

In cases of strictly lobar lesions, labectomy is the operation of choice. In 35 cases in which lobectomy is a performed by the authors there were only 2 operative deaths.

FRYNKIN I WALTON M D.

## Hayes J N and Brown L Experi nees with Oleothorax J Th S g 1933 m r

The authors first induced ofenthorax in 19 6 since then they have emplayed it in theaty nine (about 3 per cent) of their cases of artificial pineu mothorax. In some instances it via sused to maintain collapse of the long. By this treatment re-expansion was blocked for from one to I veyears. In three cases tuberculous pus of a mill instance was formed but cau ed no inconvenience. The best indication for oleotherax is maintenance of c lapse of the lung.

O) contorax is of value in cases of relatitely inactive tuberculous emprema or collable es of the pleura. In cases of acute severe tuberculous empyema it is without benefit. In tuberculous empyema it is without benefit. In tuberculous empyema it is not contorate even forming in spite of tengations of both rainduced with gomeno late of oil retails the process.

The authors prefer not to use eleothorax in the cases of patients with small intermittent bronchopleural 1 stults

During the injection of the oil the pressure of the supernatant gas in the pleural cavity must be care fully controlled J.D. Dr. Willes M.D.

Pollock W C and Skinner R B Oleothorax Therapy J Tk 5 g 1933 u

Oleothorax therapy is the introduction of an oil reparation into the intrapleural space for compress on of the lung or the disinfection of an empirema cavit. It is in licated definitely in certain c mpleations of artificial pneumothorax. The technique c n ists of thoracentes is with the use of a large gauge called an impretuno of the oil by the sytinge method

Disinfection leothorax is indicated in pneumo pyothora inhibition oleothorax in obliterative pneum thorax an l compression oleothorax in un

sat factory pneumothorax

fuberculous emprema complicating artificial preumothorax is often the result of a small super mpose? spontaneous pneumothorax which can be seen of the overcopic examination. The spontaneous pneumothorax may be due to the rupture of a college of the proposed of the proposed of the spotter of the proposed of the propos

Tuberculous empsema usually re ponds readily to oleothorax therapy induced with 5 per cent gomen of zed vegetable oil

In cases presenting evidence of obliteration of the pneumothorax space in the earlier months of pneumothorax space in the tentier months of pneumothorax therap, the institution of some type of therapy, that will inhibit re-expansion of the lung is necessary. For such cases the authors advocate oleothorax induced with 1 per cent gomesoluted parafilin oil. Distrat Mutras M.D. Distrat Mutras M.D.

#### Clerf L H and Crawford B L Bronchogen c Carcinoma J Thorac S t 1933 m 73

This article reviews a series of fifty cases of bronchogenic carrenoma. The diagnosis was based on the midnigs of bronchoscopic examination and biopy. The authors emphasize the importance of di tinguishing the truly milignant tumors from the beingin endobronchial neoplasms which are fre quently, confused with adenocarcinoma. The end results in the cases reviewed show that

the prognosis is very unfavorable. Death usually occurs from pulmonary complications. Treatment has been unsatisfactory. Surgical extripation by lobectomy offers the greatest hope provided the condition can be recognized during an early stage in none of the cases reviewed was the diagnosis made sufficiently early to warrant lobectomy. East O Liviure, M.D.

#### Gral am E A and Singer J J Successful Re moval of an Entire Lung for Carcinoma of the Bronchus J Im 31 415 1933 Ct 137

The authors report what they believe to be the first successful removal of an entire lung in one stage. The rattent had an early squamous cell car common of the bronchus. The diagnosis was made with the and of the bronchoscope. Removal of the throughous had been considered to the caused by the neoplasm. As at operation it was found impossible to remove only the upper lobe on account of the location of the tumor the entire lung was exceed. The patient made a complete reto ery and was still well at the time this report was made su monthly later.

#### HEART AND PERICARDIUM

# Levine S A Cutler E C and Epping r E C Thyro dectomy in the Treatm nt of Advanced Congest ve Heart Is lure and Angina Pectoris Ver E tl d J Mel 1031 cc 667

Theke ca es of ch once card as failure—eight conge in a one angual and the eargual and congestive—were treated by chrondectomy. Hyper case the thrond was attoo it to be absent and in every case the thrond gland was as the operation was obtained by an aniet of the condition of the condition of the condition of the condition on three death in one and slight or no improvement in three The result in one case is

not known. In the simple are not use the upper was somewhat reduced. In the three areast 1.2 congestine cases the angina was complete in hered but the conge trie failure was only mose attely or not at all improved. In the three congest, at each with ago of results the metabolic rate was on case with good results the metabolic rate was on the cases in which the results were to be the sum of the cases in which the results were to be sufficient to the case of t

#### ESOPHAGUS AND MEDIASTINUM

Harrington S W Surgical Treatm at in Elemen Cases of Med astinal and Intrathoracic Teratomata J The Sp. 6 032 H 5

The chinical symptoms surgical treatment histological findings and operative results in elevencies of mediastinal and intrathoracic teratoma are surmanized and five cases are recovired in det.

The origin of these tumors has not been defining proved. The terms applied to them should be laid on histological study of the tissues contained in the growth. In ten of the cases reported the two originated in the mediastitum and in one case, apparently arose in the right side of the displayment. The average age of the patients was that it was the contained of the displayment of the contained of the contained

The surgical treatment con sited in potent theracotoms and mediastinotoms in sever disconsistent of the surgical series posterior thoracotoms in one case positions the rotoms and repair of a detert in the dispharations case and anterior mediastinotoms in two two mone of the the termine was split man of the corresponding plan were resected. The remaindess was multiprant and intoperable

Postoperative care; of the utmo t imports or blood pressure and reher am presp ratory difficults. If there has been much loss of blood a transi son of blood should be given if not actua; stillet for. Respiratory difficults is best relieved by plating the hast entire an one verse cab give

In ten of the cases revened by the author the op ration was followed by recovery. One putter died on the seventh dat from cerebral emblism. Nine patients are it ing and have been complete reheved of their symptoms. One patient died subsequent to operation for a malignant lesson.

The author summarizes as follows

The most important consideration in the sgical treatment of medi stin l and intrath secteratomats are east recognition of the tumor and its immediate surgical removal resurdies of the symptoms caused by t

Delay of operation may result in grave complications such as malignant change or infection in the growth which increase the magnitude of the operation and the operative risk

The tumor must be removed completely a one stage operation is best

The surgical ri k is not great

In benign cases the results are good as a complete cure 1 obtained if the growth is removed entirely

Pinoche J Median Sternotomy as a Method of Approach to the Cervicomediastinal Junc tion (La tem i me médi me \ e d accès au car clourc i co méd astinal) Thèse de P ris Vost by Gus | P es e méd T r 1933 th 1474

Following a review of the anatomy the author describes the various methods of approach to the cervicomediastinal crossroad. These include

Cervical mediastinotomy vithout bone resection which i done with Kocher's collar inci ion
 Mediastinotomies with bone resection but

2 Mediastinotomies with bone resection but without sternotomy as practiced by Bardenheuer Duval Kocher and von Kuettner

3 Mediastinotomies with sternotomy—the trans verse section of Friedrich the total longitudinal section of Milton the cleidotomy of Lambret and the superior longitu linal inci ion of Sauerbruch

Pinoche uses the procedure of I el ort which be longs to the last group. In thi method the ster notomy is angular in the supero external angle of the manubrium is detached by L shaped section The mession of the intercostals of the fir i space per ints sufficient elevation of the detache I sternal segment and of the articulating clavicle. Injury to the vessels and pleura may be avoided by directing the cq osure in the I lane of the subhy oid must, which are inserted low down on the posterior surface of the exposed bony, and cartilisations portions

By this procedure access to the organs may be gained in three different was as desired. An increase of the organ of the ap meno is along the external magnetic and the procedure access to the organ of the appear of the vice the vice rail sheath and externally to the saccidate the above the vice and the above the pleura gives access not only to the entire upper half of the me hastitum but to the lateral surface of the spine and by detachment of the pleural dome to the irist intercostal spaces. By separating the pleura visit the finger at the level of the first intercostal space a tran pleura access is obtained to the me liastinal organs the outlines of a hich can be d tinguished through the mediastinal pleura.

Lefort's sternotomy has been u ed hithert's only as a decompre sion operation. The cases in which it is indicated are extremely grave. Of five patients operated upon by the author two survived the operation by only a few months and one died on the operating table.

## SURGERY OF THE ABDOMEN

## ABDOMINAL WALL AND PERITONEUM

Moothead J J The Relation of Trauma to Her nia Ve E gla d J Med 933 ccix 568

The author draws the following conclusions regarding the relation of trauma to hernia

1 Hernia 1 never caused by injury its develop

ment is always preceded by a preformed sac

Herma can be aggravated by injury

3 Immediate di abling pain is the chief symptom. This is associated with nausea tenderness swelling and other manifestations.

4 Operation usually discloses extrasaccular and intrasaccular adhesions indicating that the process is old

5 Pathological examination of the sac demonstrates chronic peritonitis and fibrous

6 Herma is usually a chronic progressive condition a ptosis a divert culum. It is rarely an acute surgical entity.

7 A large proportion of males have a herms and do not know it Surgeons are also unaware of it when treating for contiguous injury grave enough to cause aggravation of the herma

8 Hernix are subject to periods of augmentation and remission John J Malo Es M D

D Abreu F A Case of Lipoma of the Mesentery
B : 1 J Su g 933 xx1 21

D Abreu states that true lipomata of the mesen terp are rare. The central areas in a fatty tumor are very lable to undergo necrous as their blood supply is poor 'hecross' said to give nes to feer chills and pain but in the case reported by the author no febrile symptoms were apparent. The author a tient was a man twent two vears of age who was sent to the hospital with a diagnoss of subset obstruction of the small intestine. Removal of the tumor and of about \$\frac{1}{2}\$ for those is a followed unexentful recovery.

CARLR STELKE M.D.

#### GASTRO INTESTINAL TRACT

Re tassi E. Double or Multiple Gastroduodenal Ulceration (Le ulcere g st o-d d h d pp e multiple) Rad 1 med 933 x 445

Benass believes that with impre ement in the tendingue of rentgenological ceramination of the gastro-intestinal tract the diagnosis of multiple gastrodioidenal ulcerations will be made more frequently and that a ca cful search for a second or the diuche by the roentgenological will eliminate the difference between the roentgenological and pathological findings.

In about 900 cases of gastroduodenal ulceration there were 63 cases of multiple lesions which could

be recognized roentgenologically. In 15 of the latter operation was performed and the diagnos confirmed.

The number of multiple ulcers found by the suthen as greatly uncreased since his attention was called to their occurrence. The final diagnosis may be maderoentgenologically even when the disease his recheft he stage at which organs adjoining the gastro-intertual tract are involved. Exact rocatgenological diagnosis will explain many complex syndromia.

The article contains 27 illustrations supporting the author's opinion on the feasibility of diagnosing

multiple gastroduodenal lesions

Samuel J Fogelson M.D.

## Comroe B I The Associat on of Pituitary Tumor and Peptic Ulcer Am J M Sc 933 chart 508

Following a brief review of the classical observations of Cushing on the relationship between lessons of the interbrain and peptic ulcer and the eigenmental work of VicLaughlin who produced intestinal ulceration following superarenal damage in the dog the author reports in detail two cases of pintary tumor with a complicating, peptic ulcer. Attention is called to the fact that the literature to date contains no report of a similar case in which the diamenous was made durner his.

One of the patients was a young woman in whom a large penetrating duodenal later was demonstrated by laparotomy. Posterior gastro-enterottom was followed by uneventual recovery. A diagnosis of pituitary adenoma was made on the basis of a basis of the constraint of amenorabees an inhalialization of amenorabees an inhalialization of the property of t

In the second case roentgen ray study of the gastro-intestinal Tract disclosed on the lesser curvature of the stomach a lesson uggestive of a large ulicer possibly undergo ag malgnant degeneration. A diagnosis of Rathke a pouch tumor of the pitt unwas based on the roentgen demonstration of definit deformity of the sells turcars seggest ag their in the sell turcars seggest against the sell turcars seggest against the sell turcars and the sell turcars segment and the sell that the sell turcars are sell turcars. The sell turcars are sell turcars and the sell turcars are sell turcars and the sell turcars are sell turcars.

Comroe suggests that these two cases may supplied the missing link in the chain of evide or indication and to logical relationship between peptic ulers and the endocrine glands, and that treatment of early cases of peptic ulers by the subcutaneous administration of pitu trin might be worth of trial.

S MITEL J FOLELSON M D

Pauchet V The Treatment of Massive Gastro duodenal Harmorrhage (T atem t des hémo rages gast o-du denales) B ll 1 nêm S c d ch urg ens de Pa 933 V 355

Gastroduodenal hxmorrhage is often the cause of quick death and frequently i not diagnosed until after death. When the ulcer responsible involves large blood vessels such as the gastric coronary or pancreaticoduodenal artery the patient may experience a sudden syncope leading to the erroneous

diagnosis of angina pectori

The treatment of gastroduodenal harmorrhage encessates first an accurate diagnoss between harmorrhage due to true ulceration and harmorrhage due to a foreign body malignancy or a blood discrass in about one third of the cases a definite diagno is eliminating other cau es of gastro interinal harmorrhage; in made. The surgeout then knows that he is treating an organic lesson in the duodenum or the stomach unless gastrojeum diedene presuperations of the contact unless gastrojeum diedene presuperations and design diedene presuperations and design diedened presuperations and design diedened presuperations and design diedened presuperations are designed to the design diedened presuperations and design diedened presuperations and design diedened presuperations are designed and design diedened presuperations are designed and design diedened presuperations are designed and design diedened and design di

In two-thirds of the cases a specine diagnosi is not made and there is no demonstrable organic duesse. In such indeterminate cases specific sur gri 1 not indicated Ligation of a single blood vessel gastro enterostorm and jejimostomy alone are useless. The author performs a 1 jejimostomy through which the bo el 1 wa hed free of toxic purit dibiood by drop irrigation. In a case cited the pat ent absorbed 100 liters of water in twenty bours and the control of the pat of the pattern of the pat ent absorbed 100 liters of water in twenty bours and the control of the pattern o

S MIE I FOI LSO M D

Maes U Boyce F F and McF tridge E M The Tragedy of Gastric Carcinoma 4 5 f 933 c 610

In the ten year period from 0.22 to 19.31 inclusive Ty58 patients ver treated in the Nei Orleans Char 1ty Hospital for cancer of the stomach Two hundred and forty, fix (25.5 per cent) ided in the bosy and forty fix (25.5 per cent) error treated surgically, cheely because they were be jond surgically and of the 2.5 patients ope atted upon 97 (47.7 per cent) died in the hospital It is improbable that any of the 38.5, ho left the hop tall with our 18.2 patients one 18.2 per 18.2

Of the last 200 pat ents operated upon 60 died in the hospital and of the 10 who left the hospital only 16 could possibly hope for permanent cure These 00 patients ranged in age from 1 ents one to seventy, mue years. The majority were in the sixth decade of 16 but 3 we e under thirts I've years of age and 10 every 0 was under forty years.

Se enteen of the 200 p t ents had been a vare of their illness for le s than a month and 108 for less than six months. I wenty five pe cent gave a very

typical definite history of gastric ulcer and 29 had been treated for ulcer for varying period of time In 21 cases the symptoms had been present for two years or more and in 15 for five years which is be vond the period that untreated patients with cancer can be expected to survive Prominent in the his tones were intervals of remission which constitute the essential different and the ulcer history and the period that the state of the second different and the ulcer history using cancer. The authors state that 's hile some pathologists question the superimposition of cancer upon ulcer or deny the transition from ulcer to cancer it is difficult to comprehend why chronic tritation within the stomach should not have precisely the same effect as chronic tritiation of wheter.

An \ ray examination of the stomach was made in 16, of the 200 cases reviewed In 6 it was negative and in 7 it was incorrect. The authors emphasize that an \ ray examination should be made only

to confirm clinical suspicion

No symptom is constantly present in cancer of the stomach and the diagnostic difficulties are greater the earlier the patient seeks medical and. There is no specific laborator test for the condition. The safest diagnostic plan is to attribute to cancer until cancer is ruled out any indigestion which develops after middle age acutely or instituously in a person ho has been well preyou) by

Very often little or nothing can be done surgically after the exploratory operation. Gastro enterostomy is not indicated unles obstruction is present or impending. The ideal operation is gastrectomy, but

this is rarely possible. The authors conclude that surgery is justified in cancer of the stomach even in apparently hopeless cases as it offers the possibility of temporary relief into to permanent cure. John W. Nuzum W.D.

Gaitle E H Eventual Results of Gastr c Surgery
J 1 47 1 5 933 1 966

Following are new of the histature on the surgical treatment of gastroduodenal ulceration in which he calls attention to the marked divergence of opinion regarding the type of operation indicated and the variance in the reported end results. Gaither review the end re ultis obtained in 100 cases as evaluated by an internst who questioned the patients personally and examined them physically and restingenoraph cally. The pre-operative diagnoses in these cases were as follows.

In a large majority of the cases the duration of the pre operative medical treatment ranged from one to six years. In some acute emergency case (cases of Cases

122

perforation) medical treatment had been given for

filty years

the types of operation were		
Ope t	Cases	Oper to C
P steri r gastro-enter		P Iva
st my	44	J junostomy
Anterio gastro-e te		Degast o-enterostomi
t my	9	aton
Pyloroplasty	18	Ch lecvst gastr stomy
Resectio	7	Pyl ectomy
Fern	4	D visi nofanter r nd
Clos e with posterio		po terior branches of
gast o-ente ostomy	4	the vagus

Gastrod oden storny \inety five per cent of the patients received im

mediate relief from pain On leaving the hospital 80 per cent received full instructions as to higrene diet and medication 7 per cent received instructions as to diet only and 13 per cent received no instructions

The results of the operation were as follows

Per est Complet rehef of sympt ms aft r gastro-enter Complete rel ef of symptoms aft all type f operation 72 Ma ked imp o ement with slight occa o al disc mí rt No improvem nt

Attention is called to the fact that 79 per cent of the patients had followed a careful postoperative dietary regime. This proves that the emphasis placed by surgeons and internists on the importance of postoperative care and attention to the diet is being heeded A fer years ago postoperative regulation of the diet was almost entirely ignored

The author concludes from these cases that gastrojejunal ulceration catastrophic hæmorrhage and perforation are rare after gastro enterostomy and that the substitution of subtotal gastrectomy for this operation and other conservati e procedures i not pistified S MUEL J FOGELSO M D

Taylo N B Weld C B and Harrison G K Experimental Intest nal Obstruct on Ca dia M Ass J 933 x

In the past ten year a very large amount of ex perimental work has been done in efforts to solve the problem of acute intestinal obstruction Two man theories of causation of the condit on have been adsanced. According to one, the obstruction is of bac terial origin. By some investigato s it is attributed to the toxin of the Welch bacillus but recent work gives little support to this theory. According to others the condition is due to a product of the bacterial decomposition of protein material within the intestinal lumen. No theory of obstruction can be accepted which ignores the fact that the severity of the symptoms is related directly to the level of the obstructing lesion. At the present time the dechlorination and dehydration theory is most gen erally accepted Hartwell and Hoguet first called

attention to the fact that animals surviving internal obstruction for several days show marked de hydration They concluded that the disturbance is the water balance of the body was due to you.t. and was the factor responsible for the symptoms of obstruction and death Haden and Orr prolonged the lives of their dogs by administering sodium chla ride solution intravenously

In an experiment carried out by the authors, a loop of bowel was isolated in the usual manner and closed at one end the other end was brought out through the abdominal wall sutured in position and allowed to d ain for varying periods of time up to eight months and at the end of that time the abdumen as re opened and a small incision a made in the loop near its closed end On incubation for forty eight hours in broth and glucose agar a culture of the bowel contents was found sterile Ten days later the abdomen was re opened the portion of bowel passing through the abdominal wall wa resected and the bowel end closed by a pursestring suture and in

verted The animal died within sixty ho is with the usual signs of obstruction In a second animal similarly treated the loop was allowed to drain for six months At the end of that time a culture showed the contents of the loop to be sterile. Clo ure of the opening caused death with in thirty six hours. In subsequent experiments the loop gave sterile cultures after drainage for only two or three months In these experiments also death occurred in from two to four days after closure of the loops Of the total number of dogs five died and two recovered. While it is recognized that a concluse e answer cannot be made on the basis of these expen ments the findin safford no support to the bacteral theory of intestinal obstruction and sugge t that bacteria are not concerned with the production of the symptoms of intest nal obstruction

In anothe series of experiments carried out by th authors a rubber tube in in diameter fastened to a sausage shaped balloon was placed in the bowel the continuity of which was otherwise not di to bed The balloon was then infl ted until it caused moder ate distention of the bowel wall by a p essure of from 60 to 100 mm Hg In m st of the experiments the animal d ed within twents four hours with th us al

symptoms of intestinal obstruction a d necrops showed the usual finding of that condition. The longest survival t me was fifty four ho r. A ven close relat onship between the degree f di tention and the seventy of the symptoms was noted in a series of nine dogs thus treated the a erage sur val time was twenty nine hours \ ray examination showed that there was no ob truction of the bowel lumen a barrum mixture pa ed freels thron h the tube nto the portion of the bowel bel w the dis tended reg on In no case did the presso e ca se nterie ence with the blood supply of the loop

The authors believe that when the bowel becomes obstructed a certain amount of flu d collects above the obstructed point and mode atch d tends the bowel wall The distent in sets up penstaltic wa es above which travel downward drive the fluid against the block and increase the distention above. The acute distention acts as a stimulus to further secretion and more active peristalists. In thi manner a vicious criteries established.

From the results of their experiments the authors conclude that distention of the bowel wall is the important factor in the production of the symptoms of experimental obstruction. Chloride loss is not in it sell a cause of death as animals in which the bowel has been dit tended the before the occurrence of a symicant fall in the blood chlorides and in animals other) is normal the blood chlorides and in animals other) is normal the blood chlorides may be reduced to a low level without causing serious effects.

JOHN W NUZUM WID

Pool E H Niles W L and Martin K A Duo denal Stasia Duodenojejunostomy 1 S g 933 C 11 587

In the authors opinion chronic duodenal stassis and its surgical treatment have not been given proper consideration by the majority of clinicians. Stass in the duodenam may, cause serious and pro longed symptoms leading to chronic in abid most may be corrected by timely surgery. It may be brought about by fivation distortion or compension of the first or second portion of the duodenum by hands or adhesions notably by extension of the duodenum by hands of a distortion of the duodenum of the duodenum of the function of the duodenum or obstruction at or near the duodenous majority.

The patient complains of indigestion of varying degrees of severity with a sensation of weight in the epigastrium soon after meal a hich is often attrib uted to gas on the stomach but is not relie ed by b Iching Some patients have epigastr c di ten tion and soreness beneath the manubrium sterns Nausea is a common symptom and pan is often very severe. The pain is frequently mistaken for biliary colic and may require morphia. The pain and vomiting may last for several hours or days an I may suggest acute inte tinal obstruction Some patients are relie ed by the recumbent or knee chest posit on Headaches and faintness are com-The symptoms may ha e persi ted over a number of years or may ha e de eloped ery sud icaly The condition occurs most frequently in persons of the hyposthenic type and visceroptosis may be revealed by \ ray e amination fluoroscopic examination of the duodenum necessary for d agnos s demands expe t technique

The authors emplasse that it is neither wise nor necessary to operate on all planents with dooderal stass. He decision as to operat on requires careful thought and consideration of the patient nervous and psych status. Operation shoul not be un fer taken letone a careful med al regime h sheen tried and has failed to relie e the symptom. It has been commonly noted that the only care shelped by medical truatment are tho ex the about history of indigetation and very moderate stassis.

The surgical treatment usually consists in the freeing of band or constricting adhesions. For obstruction at the terminal portion of the duodenum duodenojejunostomy is indicated. This operation is safe and gives good results.

In a period of nine years Pool has operated on eleven carefully selected cases. In seven the result was excellent in two fair and in two doubtful There were no deaths. John W. Villy M.D.

Costello C D Duodenal Divert cula B 1 J
Rad 1 933 57

Diverticulum of the duodenum described in 1710 by Chomel was first reported to have been recog

nized roentgenographically in 1913 by Case
For purpo es of clas ification. O leers has divided
the lesions found into three groups namely pri
mary lesions secondary lesions and lesions asso

ciated with the major papilla

The primary lesions are flash shaped protrusions

of the numers and state most stanged pot offers of the defect in the mut clar wall of the bows of defect and defect in the mut clar wall of the bows of the contined almost exclusively to the numer border of the second third and fourth portons of the duo denum and possibly are due to dystoma of the ad a jacent pancreatic itsuse. They probably occur early in life but become larger and more manifest after middle age.

The secondary lesions possess a complete muscular coat and are situated almost exclusively in the first portion of the duodenum. They may be of the traction or pul son variety. Those of the traction variety are due to the contraction of periduodenal or pergastric adhesions over the sites of duodenal or gastine ulcer. Those of the pulsion variety are region of an ulcer scar or pouching due to redundancy of the normal duodenum at a point opposite a contracted chronic ulcer.

In the lessons associated with the major papilla the papilla of vater is situated at the bottom of a small di extraculum or the diverticulum may con sist of a dilatation of the ampulla of vater itself Lessons of the type are probably due to a congenital anomaly

In 1932 Horton and Mueller reported that duo denal discritculu were found in 8 per cent of the postmorten material at the Mayo Clinic. Mode 8 bound them in 12 per cent of 2 200 \ \text{Tax} we examina tions and Lockwood in 17 per cent of the routine gastro intestinal \(^{1}\) ray examinations a rid ed out in his clinic. The incidence basel on \(^{1}\) ray examination tion obviously depends on the care with which the fesson is sought. According to Odgers the ratio of dougdenal d extructla in males and females is 47 dougdenal d extructla in males and females is 47

The author agrees with the generally accept at theory that uncomplicated pimary diverticula are of no chin call importance. Secondary diverticula are always significant as they are indicative of a previous pathological les on which may be reactivated or may have produced other complica tions. Regardless of the type any diverticulum gains clinical significance when it becomes the site of or gives rise to a secondary pathological change Diverticulitis and peridiverticulitis are common in the colon but inflammators change in and around duodenal diverticula are comparatively rare. Cal. culus formation is not common but Harns reports finding a pure cholesterm store in a diverticulum Torsion and strangulation of a pedunculated diser ticulum are possibilities but no cases have thus far been reported. Malignant degeneration may occur but most of the recorded cases w re cases of carci nome of the duodenum which produced an appear ance simulating diverticula By causing pres ure on neighboring tructures diverticula of the duodenum may give rise to secondary pathological changes in the bile ducts pancreatic duct adjacent portions of the duodenum and important blood ves els Divertirulties and pressure effects on the bie and pancreatic ducts give the disease its clinical im portance

When marked pre sure symptoms are pre ent surgical treatment is indicated. Directicult us appendiverticulitis are be t treated medically. The type of treatment to be employed in cases of secordary directicula is best determined by consideration of the pathological process which produced the directiculum.

The author a radiologist reports six cases in which the diagnos was made by \ ray examina tion. He presents the following diagnostic observa

tions

The shadow of the diverticulum is distinct from that of the duodenum and is usually round and smooth in filling and outline

2 Under the fluoroscope a connection can usually be demonstrated between the two structures by emptying the diverticulum into the duodenum by palpation.
3 Baruum is often retained in the deficiellm.

lor several days after the duodenum has been emptied

4 Tenderness over the diverticulum on fluor

4 Tenderness over the districtional of hoof occups should suggest the diagnosi of diverti whits or pendiverticulitis

The author states that frequently the levions vill

The author states that inequency the invoir's in be missed on fluoroscopic examination rule ade quate care is exercised in inspecting the second third and fourth portions of the duodenum with the patient in the creed and recumbent positions Armira's W Tox sory W D

All n A W. and Bened et E B. Acute Massive Hæmorri ag f om Duod nal Ulcer 4

\$5.2 1933 < .99
In the past twentt vests, \$80; cases of duod natuleer were treated in the ward of the Massachusetts General Hospital In 6.5 there was a history of gross blieding or the General Hospital and 6.5 there was a history of gross blieding or the General Control of the Cases the pattern and the control of the Cases the pattern was hassified as a moderate bleeder as sufficient blood beloss had taken place to reduce the red blood cells shad taken place to reduce the red blood cells.

to 3 000 000 and the hamoglobin to below o per rent. In 200 ca es the bleeding was severe en)igh to produce a marked secondary anamia

This discussion is limited to the case of anymassive humoritage. These are duided into 65 cases in which bleeding occurred gradually over a period of necks and 148 cases? 1 per cent in which the humoritage or ucred sufficiently suddent to cause prostration shock and marked aarmin by the 148 patients with sudden humoritage is a to death without operative interference and 5 were operated upon in a depleted state without sic The protably in this group of sudden server ma-

in nearly every fatal case it was no ible to demonstrate erosion of a large vessel at oversion

or autops.
At operation the identity of seash is so observed
by the surcounding inflammatory rescion that one
can only hope to intercept the vises as the tissabout the idear is divided. Ecosion into the gue
about the idear is divided. Ecosion into the gue
about the idear is divided. Ecosion into the gue
about the idear is divided. Ecosion into the gue
about the idear is divided. Ecosion into the gue
about the idear is divided. Ecosion into the idear
play an interpretate that it and this in his fire
play an important rolle in the further development
of the eroded viscoils and in the treatm at of the

ulcer

A most striking differential point between cases of apparently the same sevent on admission to the hospital in which bleeding ceased spontaneous o bad a fatal termination is the avera e age. In the fatal cases revi wed the averag age was fifty as and three tenths years and in the cases with reco

ery it was forty-one and eight tenth cear. In an effort to define the tipp of severe ris a chamorrhag that must be considered as possible datal the authors state that not 2c.a.e. with recovery the bleeding which occurred while the patient was in the ho pital was suff-cently alarming, to pile them in the class. The average age in these 2cess was forth three and fine tenths various coses was forth three and fine tenths various off and the contract of the patients were beyond the average age in the first recovering from sudden severe harmorrhage there each 1 the bound the average age in the first

group
Gross bleeding in duodenal ulcer is recomized as
one of the hief ndications for su her)

Sever mas ie ha morrhage from a known or strongly suspected douderaal ulter at the time the patient enter the hospital should be considered potentially fatal Depending on the aye of the patient of the several of the bleeding it is usually polie withen a few hours to determine whether the contract the proceeding of the patient of the companies of the patient and the process of the patient of the patient opp humateness and meletas should be careful trans, fused if these ontimes to bleed a large tranfusion should be gir and opperar a should be referen-

i rined immed atel;

Ferthing should be eads for treasful?

Either matched citrated blood should be on band of a donor should be available in the ho pital. Blood

should be given to the patient only when he could unbecomes worse when the systotic blood pressure is above o mm Hg. When the pressure has fallen below the leed death may occur so quickly that there vill be no time for transfusion. The blood should be given bloody in amounts of about 500 cm. After the patient is safely or er the acute stage of hymorhage (from five to seven day 5) blood transfusion will materially shorten his convalencence. In the case of a large precentage of patients who rapidly lose the benefits of transfus on operation should be considered.

In the cases of certain patients who enter the hospital in a depleted state the condition may be considered hopeless or a heroic attempt made to save the patients life. In the 20 fatal cases reviewed watchful waiting and late surgery were tried.

If a nationt in a depleted state is to be rescued by surgical therapy the situation must be met in a lowcal manner. Given an open large vessel behind the duodenum on an eroded area in the pancreas the surgeon must obtain adequate exposure to intercept the vessels entering the ulcer outside of the ulcer bed Attempts at controlling the type of bleed ng with sutures by cautery or by simple ga tro enterostomy without a direct attack on the ulcer will probably fail. The loss of blood during the operative procedure may be controlled by rapidly transecting and freeing up the lower third of the stomach don n to the ulcer The do tal clamp should then be removed and the anterior wall of the lower egment opened ade to expose the ulcer The bleed ing point may then be controlled by digital pressure or tamponade and the resection continued without further serious lo s of blood. The vessels entering the edge of the ulcer are intercepted as the inflam matory tissue is cut across. After the hamorrhage is controlled the level of the amoulla of Vater must be determined. If there is room to free the duodenum beyond the ulcer bed and allow a satisfactory turn in the operation may be easily completed. If there is doubt concerning this or if the erosion in the pan creas is large and sufficiently deep to ba e opened an accessory pancrent c duct the procedure mu t be mod fied A part of the elevated distal portion of the stomach may be eliminated a sufficient amount of the prepylor c region being left for easy suture The duodenum and stump of the stomach may then be sutured in such a way as to enclose the ulcerated area in the pancreas \nastomosis be is een the stomach and bowel may be made by either the Polya or the Billroth II method Caution must be exercised to a oid damage to the common bile duct as vell as other adjacent structures

SAMUEL J FOGELSON M D

Fin terer II Gangrene of the Colon After Gastric Resections (C 1 x ngra h Mag nr ek t ) Z t lbl f Ch 933 p 85

hoch believes that the incidence of gangrene of the colon is much greater than is suggested by the current literature. He is of the opinion that I gation

of the middle colic artery proximal to the beginning of its small branches always leads to disturbances in the transverse colon. In reporting his conclusions based on 2 130 cases he states that in resection for ulcer injury to important blood vessels may be avoided by sharp scalpel section of perigastric ad hesions. Lenetrating ulcers of the stomach may be thus severed from the ulcer base and the resulting gastric defect temporarily closed. If a gastric car cinoma has invaded the mesocolon it is possible to obtain satisfactory end results by resecting the mesocolon The middle colic artery should be pro tected as much as possible. However it mu t be ligated if malignant to sue surrounds it. This type of ligation is not necessarily followed by gangrene of the colon but ligation of the terminal arcades always results in trophic di turbances necessitating resection of the colon

In the treatment of gastric ulcer at least to o third of the stomach must be removed while in carcinoma of the stomach at least a subtotal resection is required. The opening in the mesocolon must be placed as far to the left of the left colic artery as possible. The Holmeister Finsterer anasto. mosis i used so that the anastomosis i not made unnecessarily large. The superior portion of the gas tric opening is closed only the lower part being left for bowel anastomosis. The operation is facili tated by first fastening the left leaf of the slit in the mesocolon to the posterior eastric wall and then making the anastomosis. For cases in a high the mesocolon is extremely fat gastro enterostomy supplemented by Braun's anastomosis has been advised because of the danger of invol ing important arter ies but the author believes that exten ive resection 18 preferable as it climinates the danger of recurring gastrojejunal peptic ulcer A BRUNNER (Z)

#### LIVER GALL BLADDER PANCREAS AND SPLEEN

Lioy D and Miliani R The Effects of Stenos a and Secondary Clo ure of the Portal Vein on Omentopexy (S ghi ffett dell tenos e della ec nd ri hiu u a d lla na p tape i om t pes a) Cl / 933 7 9

In experiments to determine the effect of stenosis and secondary closure of the portal vein on omentiopers, the authors found that the Talma omentopers sinsufficient to compensate for the primary or simil taneous closure of the portal vein at the time of the omentopexy. All of the animal operated upon in this manner died.

In a second senes of experiments the authors produced stenosis of the portal ven at the time the omentopeav was performed and later occluded the ven completely. They noted that the omento parteal creculation became most pronounced early least of the control of

while the amount of blood flowing through the omentoners was greatly diminished

The survival of the control animals in which first stenosis and later complete occlusion of the portal sten was brought about without omeritopery confirms the authors theory of the minor rôle played by the Talma omentopery in cases of portal occlusion.

Peters A Rose VID

Parino A Hepatosplenography (Lepatosple ografia) Radiol med 933 xx o

This article is based on trently three cases—mue cases of neoplasm three of carnotic lessons of the liver two of acute inflammatory hepatic lessons two of imphogramium acute in liver two of acute inflammatory hepatic lessons two of imphogramium acute in the inflammatory hepatic lessons two syndrome and three of enlargement of the liver and splent without definite diagnostic data. The opaque medium camplos de was a colloidal solution of tho medium camplos de was a colloidal solution of the continued over a long period of time in some instances as long as seventem mouth.

While there were no clinical symptoms of any so it and laboratory tests revealed no change from the normal which suggested immediate damage to the blood of the organs of fixtuno o climanation the author does not feel justified in concluding definitely that the diagnostic po ocedine used; in Armiless as there is a possibility of late lessons from the act on of the thorum doude as foreign sub tance or from its radio-active action even though the latter is admitted to be very feeble. He therefore recommends it only for cases with an unfavorable prognosis and urges that it the studed further in experiments on an mals with special regard to the late effects of the thorum doubte.

Twis J R and kill an J A Diagnostic Methods and Metabol e Studies in Dis ase of the B hary Tract I Descript on of Routine Examination and D scuss on of formal Standards Am J M S total class 1-8

The authors performed 3 000 bilary dramages by the Lyon technique in the cases of 500 patients. On the basis of the results in these cases and the findings in the cases of 10 normal persons and 30 patients with a presumably normal biliary tract who had mild attacks of gastro intestin 11 s mptoms the ha c attempted to define the criteria of normal function of the biliary tract.

The state that the history should be taken care fulls although it may be suggestive of bilary disease hen the biliars tract is normal. The phys call camunation is of him ted alue and e en a thorough roentgenograph c study is not all a chable Biliary dranage by the Lon technique should how the characteristic A B and C bile mic oscopically free from cholesterior cristals and calcium birubin pigment. However the authors point out that in one normal case occasional cholesterol cristal were found in the concentrated bile from the gail budder. On chemical analysis choleste of is found

in A B and C bile. The quantities are minute in A and C bile and distinctly larger in B bile. The internus index should show less than 8 units and the direct van den Bergh test should be negative. Els acids are apparently not present in normal blood but should be present in gall bladder bile in a concentration from 4 to 7 times that in d oderal ble. Bacteriological cultures of all 3 tipes of bile should show no growth. Struyt H Mextra 1

Masciottra R L and Etcheverry M A Internal B hary Fistulæ and Calculous Obstructions of the Gastro Intest nal Tract (Fistulæ hairs int rna v b tru ci es calculosas d l trachs ratro-intest a l) Re-méd-q ru g de paí f n

The authors report three cases of cholecystopoloric fistula and two of cholecysto-duodenal fistula. In both of the latter calculous sheen secured. In one the diagnos: of cholecystoduodenal fistula was made by roentgenograph e examinon before operation. In the other, the fistula persisted for three years after operation although the patient was

free from abdomnal symptoms
In 1922 the literature contained the reports of
only lorty two cases of internal bilary fixed
diagnosed reentgenowraph call. The authors case
is the first to be reported in the Argentinan literation of the four other cases reported by the
control of the four other cases reported by
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the four other cases reported by
the four other cases reported by
the four other cases are the common
duction of the four other common
duct in one and tumor of the volorus in two

In discussing the roentgenological disgussion to authors state that the solated demonstration of baruum in the bilant tract does not always ne unternal bilany fistula neither is the presence of proparation that the propagation of air in the gall bladder pathogomomon, as propagation of the state of the surface of the fluid in the gall bladder and infiltration of the fluid in the gall bladder and infiltration of the walls with gasare upportant signs which a eabsent in eases of bilany fittile.

The authors discuss at length the ad-antages and disadvantages of enter ostoms, for dramage of the p outmal loop in bilary ileus. In the Argentaer this operation has not been performed in the majority of cases in the mortal to in Argentiana cases appears to be loner than the mortality in cases in ported with other countries in which enter to min was done

The article conta ns roentg ograms and photomucro-raphs and a biref summar, of the cases of internal bil ary fistula which we e diagno-ed roentgenograph call M E. Mo se M D

S nty P Mallet Guy P and Brechet A Py foroduodenal St nos of Bill ry Origin Bo erret Type Choley todund n I F tula W in Impa tion of a Calculus (La téore p 1 nd or dé al d nn blane type B ret Fist I ch Hey tod d v d 1 ext I t é l 4 fe r belg d 4 og 39 33 xxxxx 978

The autho d scuss only the pil ric obstruction which results from the migration of gall stones into

the duodenum through an enterobiliary fistula Knowledge of this condition dates back to the report by I an Swieten and Morgagni of a case in I hich gall stones were vomited Subsequently I iron reported the case of a patient who had somited two calculi subsequent to showing the syndrome of pyloric The earliest pathological descriptions of scirrbus pyloroduodenal fistule were published by the elder Duplat in 1813 and by Bonnet in 1841. The first complete description of the syndrome discussed in this article was that of Bouveret Bouveret s patient was a voman whose condition was diagnosed as pv loric stenosis due to adhesion between the pylorus and the gall bladder. At operation performed by Poncet the pylorus and gall bladder were found enveloped by dense adhesion and a hard mass supposedly a carcinoma, was felt in the region of the pylorus On exploration by castrotomy the tumor was discovered to I e a large gall stone which had be come firmly impacted in the duodenum through a cholecy toduodenal fistula

In the treatment of the condition Tuffier and Marchais limited operation to the section of ad lesions and gastro enterostomy. More recently there has been a tendency to attack the lesions directly by radical operation (Cottle 1007)

Obstruction of the duodenum by calcult was for a long period regarded as a curio ity but with the accumulation of about thrity cases the condition has been demonstrated to be a well defined pathological entity. The principal features are distantion of the

stomach cholecystoduodenal fistula impaction of a calculus in the stoma or the duodenum and occasion ally a true stenosis of the duodenum

The fistula is usually formed directly by a gall stand ulcrating through the fused valls of the gail bladder and bone! Occasionally however there is an intermediate perivesical abscess which points and ruptures into the duodenum. The fistula is always suitated in the middle of the first portion on either the superior or the opsterior wall.

The cluncal manifestations of Bouveret's lesson are not at all distinct and only the roentgenological signs are of much aid in the diagnoss. The latter were first studied by Brocq and by Brodn and Ammé (1970) They consist of (1) dilatation of the duodeand bulb (2) a lacunar image of the bulb due to the presence of the calculus and (3) the shadow of the fistula.

In the treatment of these lesions there are three possible course of action (i) gattre enterostomy (2) removal of the calculus and (2) radical treatment of the fistal. Gastro-enterostomy is valuable as a preliminary operation when the patient is in a pre-carous conduction or as a supplement to the other procedures. It should probably be performed in most of the cases When a jaboula, button is employed little or nothing is added to the risk of the operation. When feasible radical treatment of the fist tula is the procedure of choice. The gall bladder may be drained or removed.

ALBERT F DE GRO T M D

## GYNECOLOGY

## UTERUS

T Linde R B ine Cervix J Am M Ass 1933 Ct 1211 Cancer Like Les ons of the Uter

The author reports a histological study of cancer like lesions which were discovered in the routine examination of twenty four specimens of cervical tissue received in the Gynecological Pathological Laboratory of the Johns Hopkins Hospital Balti more The tissue was removed in the following operations simple twisting off of cervical polyps twelve cases trachelorrhaphy three cases ampu tation of the cervix one case biops; one case curettage one case and panhysterectoms for can cer like lesions six cases

The twenty four nomen were followed for from one to ten years None of them subsequently devel oped carcinoma of the cervix. In the cases in which panh) sterectomy was done several blocks were cut panny sected with mas bone several moras were cut-and several sections studied from each block No unmistakable cancer was found in the same cervix and no continuity between cancer like lesions and true cancer was observed

In the vast majority of cases these cancer like but benign lesions are readily differentiated from early carcinoma if the pathologist is cognizant of their

The carcinoma hie tissue may suggest epidermoid carcinoma or adenocarcinoma but more frequently resembles the former Under low magnification the tissue suggesting epidermoid carcinoma shows solid essue suggesting characteristic carefulness success some strands of cells deep in the stroma and in places apparently isolated from the surface epithelium The general pattern of growth is extremely irregular Magnification sufficient for a study of the character of the individual cell shows several pyknotic nuclei scattered through the epithelium but no large h) perchromatic nuclei or mitotic figures On senal section several isolated epithel al areas may be found continuous with the surface epithelium Failure to establish continuity does not indicate malignancy as inflammation and resulting fibrosis may isolate strands of benign epithelium from the parent surface laver round cells indicating inflammation is the invan Marked infiltration with able accompaniment of the irregular prohieration Downgrowth of squamous epithelium frequently follows a glandular lumen and often takes place be neath the columnar epithelium of the gland

When the tissue suggests adenocarcinoma the pattern is formed by squamous metaplasia of cells lining the glands and is often seen beneath the surface epithelium Under high magnification the process may be recognized as simply another form of the process of ep dermization already described The normal columnar epithelium lining cervical

glands has been replaced by epithelium resembling genues has been repraced by chrincian recenture the squamous type Careful examination of the andividual cells fail to reveal hyperchromatic no

Malignancy is suggested by irregularities in size shape and staining qualities Retention of the nor mal differentiation of cells in squamous epithelium and the basal trans tional and spinal later B into the outsite transcribinal and spinal laves a against malignance. However, its absence does not indicate mal gnanc) as this differentiation i often wanting in the squamous epithelium formed by the process of epidermization. Hyperchromatic nude are suggestive of malignancy and mitotic figures in the cervical epithelium are of great significance. The presence of both establishes a di gnosis of malig

The author believes that the essential factor in the production of the careinoma like microscope pictures described is inflammation. He h s never seen such pictures except in the presence of dem n strable infection He states that althou h the lesions are cancer like there is no true evidence that the are precancerous and there is no justification for radical surgery based solely on the presence of such lesions When doubt exists after examination of biopsi specimens by a competent pathologist the patient should be kept under close observat on and a second biopsy should be carried out if necessary In the author's opinion there is as yet no recognized microscopic picture in the cervix which can be inter preted as representing a transition between a beniga and a malignant change ROBERT W GETTE MD

Curtis A H Co neident Surgical Exposure and Rad um Therapy n the Treatment of Exten siv Cervical Cancer im J Ob 1 & G

The author treats the necrotic cervical growth by surgical diathermy or prophylactic irradiation at least three weeks prior to operation but stat s that preliminary deep (ra) therapy may serve equal well in healing the slow hing cancerous surface

When the surface has become free from necrosis and infection a pelvic examination is made under anasthesia to determine the extent of the growth Surgical exposure of the cance bearing uterus a d adjacent cellular tissues is then undertaken. The bladder is mobilized upward by blunt dissection the cervix encircled by an incis n such as that made for radical vaginal hysterectomy and the vaginal mucosa carefully dissected laterally and posteriori along the natural lines of cleavage The body of the uterus nd the regions of the b oad ligaments and cardinal ligaments are then well vi unlized. With the organ half delivered broadside vaginally the bladder safely anchored in its elevated posit on with a calgut

suture holding it high on the uterus and the paracervical tissue exposed a massive radium treatment is possible Radium needles or radon seeds are inserted near to into or at a distance from the cervix as indicated with assurance of safety of the adjacent vulnerable organs

The immediate results in three cases are reported All of the tatients made a good recovery from the procedure It is too early to report the final results

EDWARD L CORNELL M D

## ADDRESAL AND PERIUTERINE CONDITIONS

Bonnet L Surgical Freatment of Tubal Sterility (Trait m nt ch rurgical de l st rilité tub re) Bull et mem Scdch g sd P 1933 Y

The most common cause of sterility is occlusion of the fallopian tubes The incidence of sterility due to this condition ranges from 55 to 65 per cent During the past ten years two method of tubal exploration have been employed (1) tubal in uf flation and (2) salp ngography. The first being the simplest should be done first. If the tube is found blocked the second procedure should be used to complete the examination

Both of these procedures may in them elves prove excellent means of treatment being often followed by pregnancy If the tubes are demonstrated to be impermeable

to gas or hiprodol recourse must be had to surgical measures These are classified according to the site of the lesion as follows

1 At the fimbriated end of the t be

- Salpingolysis high consi ts in freeing the fimbrire and peritubal adhesions This operation vas first mentioned in 1014 in a case report by Gouilloud
- b Salpingostoms in which a new orince made at the distal end of the tube

2 In the mid portion of the tube a Salpingoplasty (operation of V dal) In

this procedure the tube is inci ed longi tudinally and then sutured transver ely b Resection of the steno ed portion fol

lowed by end to end suture

3 In the intramural portion of the tube a Implantation of the tube into the terus

- after resection of the first segment b Ovarian grafts These are employed when extensive bilateral le ions neces s tate total salpingectoms. They may be homografts o autografts There are several methods of using autografts free grafts or pedunculated grafts may be implanted in the interio or into the
- cornua of the uteru Th author's experience and the reports in the literature show that any of these procedures may be followed by pregnancy if the cases in which they are used are properly studied and elected

MARSH W POOLE M D

Rochat R L Treatment of Utero Adnexal Tuber culosis (Trait ment de la tubercul e uté o an n x elle) Gy é et des 1933 vx 11 2 0

During the past thirty years the treatment of utero adnexal tuberculo is has become increasingly The modern treatment in more individualized cludes three methods surgery heliotherapy and radiotherapy Each of these methods may result in cure but as a rule all three must be employed When the lesion is localized to the genital organs the best results are obtained by surgery therapy is the treatment of choice when the process has extended beyond the adness and involves the peritoneum. It has the advantage of rendering in operable cases suitable for operation. Hygienic and dietetic measures must be included in any form of treatment HARGED C MACK M D.

Llinas J P Investigation and Study of th 1 res ent Day Theories of Ovarian History vs ology (In tig ció y estud s bre l s oc nes actu le d h t fsiolo la oxárica) A éd de B g ia 933 th 120

The author describes in detail the hi tological structure of the ovary and traces the changes in the genital tract and the mammary gland coincident with maturation and rupture of the gr aftan follicle and the formation and degeneration of the corpus Intenn

He believes that the presence of the mature f l licle in the ovary is responsible for the series of changes in the organism which tend to facilitate costus and fecundation and create a special state of libido varving in degree according to the specie These phenomena are due to the action of the active princ ple of the follicular fluid folliculin considered

as a product of internal secretion

O ulation may be spontaneous or provoked In mammals vith the exception of voman and certain anthropoids ovulation is provoked by coitus and takes place only during the state of libido when the follicles are ready to rupture. The underlying cause of rupture of the follicle : the genetic excita tion provoked by costus or in some cases produced artificially

In voman although ovulation is spontaneous and occurs periodically coitus may nevertheless bring

about rupture of the mature follicle

The evolution of the corpus luteum depends on thether pregnanct occurs or not. In any ca e it is divided into two stages (i) an anabolic stage or stage of development which in oman lasts t elve days in the corpus luteum of menstruction and from three to four months in the corpus luteur of pregnancy and (2) a catabolic stage or stage of regression which in pregnancy lasts until delivery

During the anabolic stage of the cornus luteurs certain changes take place in the genital organs which tend to favor the reception mplantation

and nutrition of the fertilized ovum

During the catabolic stage of the corpus luteum all of the changes in the genital organs d sappear

and the organs return to normal. This regression occurs rather suddenly and in woman and certain anthropo ds is responsible for the menstrual flow due to the shedding of the conjested mucosa

During the first half of pregnancy the corpus luteum determines the maintenance of the ovum est situ and prevents its resorption. It acts also on the mammary gland causing it to enlarge. After the fourth month it prevents maturation of other

The author believes that there is a luteimic hor mone although by many the is denied

The interstitial gland does not exist in the human ovary and its relation to the genetic life of the animal po sessing it is very indefinite. A paral lelism has been found onl between its development on the one hand and the weight and age of the ant mal on the other II H MARINE M D

Plate W P A Ra Form of Foll culoma of the oran the Folkendome Lipidique of Lee ne (Un 1 rme re de foil cul me de lo 11 le 10il cul me lipidique of Lee de 60 lo 12 le 10il cul me lipidique of Lee e) (5 / 6 d b 1 933 xx 42 1 h f G) k 933 clm 3 8

The author describes in detail a very unusual tumor of the ovary which belongs to the granulosa tumors and has been designated as a followloma and an oophoroma

The patient was twenty three years old Pelvic examination revealed a tumor of the left overs the size of an orange Two years previously curettage y as done for metrorrhagia and the scrapings showed hyperplasia of the endometrium. After the curet tage menstruation became irregular and then sud

denly stopped At the time of the operat on for the ovarian tumor amenorthma had been present for seven months, the breasts were enlarged and congested and colostrum could be obtained but the patient was not pregnant

After the operation which consisted in removal of the tumor-the uterus both tubes and the right ovary were found normal-menstruation be ame regular and the colostrum disappeared from the

breasts Histological examination of the tumor by the author in collaboration with Moulonguet of Paris and a large number of pathologists outside of France pro ed the neoplasm to be a folliculoma rich in fat and lipo ds which was identical with the tumor described by Lecene as folliculome lip Only two other tumors of this kind have been reported in the world literature. Both were described by Lec ne the first in 1910 and the second

The author discusses the differential diagnosis of such tumors especially from hypernephromata and luteomata of the ovary

The development of the folliculoma causes hype plasia of the endometrium which results in irregu larity of menstruation. For some reason the tumor luteinizes itself and the luteinized cells exert the same activity as lutein cells and produce a condition similar to pregnancy with amenorrhosa engo as ment of the breasts and colostrum

As soon as the tumor is removed the hormonal action ceases the state of pseudopregna ci deappears and menstruation becomes regular

ISAAC ANDRESSIER, M.D.

Novak E and Long J H Ovar an Tumors A sociated w th Secondary Sex Changes Granulosa Cell Carc noma and Arrhen blastoma / 1 M 1 s 1933 CI

In the past few years a new chapter in gynecolor cal pathology has been written in the description of a group of ovarian tumors capable of producing profound effects on the sex characters

The classification and naming of ovariant more have been difficult because of uncertainty regarding

the bistogenesis of the peoplasms

Granulosa cell tumors arise from early conhomgenic structures in the sex gland area. During i tal development two types of sex-cell develop on one and follocular epithelial The latter group themselves around the egg cells to form the primordial follices In the process rests of granulosa cells may be left from which granulosa cell tumors arise

The granulosa cell is a typically feminine cell producing the so-called female sex hormone follicular or theelin The hormonal effects produced by gran ulosa cell tumors are along the lines of feminizatio with overaccentuation of certain female sex characters.

ters and functions

Granulosa cell tumors may occur at any age but are most common after the menopause When they arise in elderly women they produce a most remark able effect on the uterus through the endocrine action of the granulosa elements. The uterus becomes characteristically increased in size and pseudomen strual bleeding occurs This sequence must there fore be kept in mind as a poss ble explanation of postmenopausal hæmorrhage. If for example dag nostic curetting in such ca es sho vs no suggestion of malignancy but reveals a typical hyperplasia of the endometrium the first thought should be of a granu losa-cell tumor of the ovary The hyperplasia in such cases is due unquestionably to the excessive produc tion of folliculin by the granulosa cells just as by perplasia in women of the reproduction age is due to hyperfolliculinism

În at least a few cases granulosa-cell tumors have occurred in young children In the young the hyper feminizing influence of the neoplasms is manifested by precocious puberty and menstruation to either with such secondary changes as mammary hyper trophy the growth of genital and axillary hair in creased growth of the body the development of the typical feminine postpuberal contour and an in crease in the size of the uterus to or almost to the

puberal size

Granulosa-cell tum rs are ommonl unilateral. They vary in size from that of 1 h kory nut to that of a grape fruit Their surface is smooth but the) may be somewhat lobulated. On sect on the are found to be soft and sometimes granular Frequent ly they show gelatinous areas Especially when they are large cystic cavities sometimes small and some

times oute large are seen

Arrhenoblastomata are a les common group of ovarian tumors which produce effects diametrically opoo ite to those of granulosa cell tumors since they have a defeminizing or a masculinizing influence These effects are believed to be due to the origin of the tumors from certain undifferentiated cells in the reg on of the rete ovaru the female homologue of the te tis

The clinical manifestations of arrhenoblastomata vary according to the degree of the masculinizing hormonal influence and the latter appears to be a re Section of the degree of undifferentiation of the tumor cells. In the most extreme cases the voman who has previously been of a normal feminine type becomes amenorrhoric the breasts flatten and atro phy a heavy growth of hair appears on the face chest, abdomen and lower e tremities the figure loses its normal feminine curves and assumes the typically more angular contour of the male the voice becomes much deeper because of laryngeal hypertrophy and the clitons may show such hyper trophy as to be almost pent like in its proportions Removal of the tumor lead to regression of the symptoms

The tumors are usuall unilateral and like most neoplasms of this embry onic group are of a relatively low degree of mal gnancy. They are commonly of moderate size o oid lobulated soft and on sec.

tion vellowish

As the microscopic pattern is var able they were formerly classified as sarcomata carcinomata or endotheliomata Careful study of sections will some where reveal a inbufar or strand like arrangement of the cells suggesting sex cords of early gonadal de CHARLE F DUBOIS M D \*elopment

#### Spencer II R A Review of 658 O amotomies Proc R y Soc Med L nd 933

All of the specimens removed in the 6 8 0 ari otomies reviewed by the author were examined macroscopically and microscopically Sixty three of the tumors complicated pregnancy I bor or the puerpetium Of these 23 were operated upon during pregnancy or labor. Spencer says that casarean sec tion is inferior to simply ovariations in the treat ment of ovarian tumo s in advanced pregnancy and labor and superior to simple ovariotomy in the treatment of paro aman tumors in advanced preg nancy because of the danger of thrombosis and emboli m

idhesions i ere present nover 66 per cent of the cases reviewed and tors on of the pedicle oc curred in 11 fer cent Tapping of 12 tumors before operation was followed by the formation of adhe sions in it cases and by suppuration in a case

The ovarian tumors were of the following types papulomatous o aman cysts 33 dermoids 66 t broids 20 paraovanan tumors 45 and suppurat

ing tumors 58 Of the 67 malignant tumors 66 were malignant ovarian tumors and I was a benien unilocular cyst with cancer of the body of the uterus Fifty eight were carcinomata 6 were sarcomata and 2 were endotheliomata

The patients remained in bed for twenty one days and were not discharged before the twenty fourth postoperative day Thirty five (5 3 per cent) ded after the operation while they were in the

hospital

On the basi of his experience the author advocates the removal of all benign ovarian tumors however adherent and shether they are papillomatous or smooth and the removal of malignant tumor even in the presence of secondary growths provided the patient's condition will allow it

ALICE F MARRELL M D

## MISCELLANEOUS

#### Novak E Gynecological Aspects of Endocrinology B 1 M J 1933 X1

In 1917 interest in the physiology of reproduction as stimulated by the discovery of the vaginal smear method for the chronological study of the sex cycle in laboratory animal The work of Frank Allen and Doisy and many others on the o arian follicle hor mone that of Corner and Allen on the hormone of the corpus luteum that of Smith and Ingle and of Aschheim and Zondek on the function of the anterior lobe of the pituitary gland represent marked ad vances in our knowledge of the gynecological aspects of endocrinology

It is now universally recognized that the overs produces two distinct hormones. One of them is follicular (astrin the lin menformon) the charac ten tic hormone of the active graatian follicle. Dur ing the process of maturation of the follicles a steadily increasing amount of folliculin is secreted This r ro duces in both the endometrium and the musculature of the uterus two main ellects namely hypermmia and growth With rupture of the follicle the corpus luteum phase of the cycle begins. During its period of activity the orpus luteum produces two hormone foll culin and procestin. The latter its own charac teristic hormone is responsible for the secretory activity of the glandular ep thel um

Another important problem related to endocrinol

ogy is the relationship between ovulation and men struction. The author believes, though he cannot yet produce the evidence that menstruation can occur in the human female as in the monkey with out ovulation Under such circumstances the woman

is sterile but may be otherwise normal

With reference to the hormonal mechanism in vol ed n menstruation Novak states that men strual bleeding a preceded by retrogression of the corpus luteum a structure which appears to protect the endometrium So long as the corpus I teum is thriving and functioning the endomet ial develop ment advances so that in the case of the corpus

luteum of pregnance the pregravid endometrum passes by an east tran thou nut to the deedus. If the retrogression or excision of the corpus luteum the adometrum decrenates is cast off in on iderable part and bleeding berms. Pernoval of the growing foldice also results in bleeding 3. At to follice con tams sulv. foll culin the bleeding is determined apparently by the removal of this hormone. The bleeding affect corpus future excision or regression is readily explained by the property of the removal of this hormone free bleeding affect corpus future excession or regression is more character to the prox decoding expectable more character the prope tin. This may explain a more character the prope tin. This may explain a more character the prope tin. This may explain a more character the prope tin. This may explain a terrestrictly stamming which is probably due to ovals the contract of the probability of the probabili

With refere ce to the alize of graceological or grantherapy the author states that it would be unfortunate if interest in endocrinology, were predicated on an evaluation of the efficacy or mefficacy of grantherapy for the res its of this form of treatment have been disappointing thereas those of gipe cological erdocrinology have be an numerous and

adolescence and the menopause

brillant

Only in cases of functional hymorrhage has the appl at on of organotherapy wielded far by the results than other forms of treatment. In such cases the use of the so called internating hormone obtained from the urne of pregnant women has had an arabed effect probable through some knownau action as jet not und stood rather than through tological changes. In the treatmen of men pausal as improve following the treatment of men pausal as improve following the treatment of men pausal as improve following the following the treatment of men pausal as improve following the following through the following t

Johnstone R W. Gynecological Aspects of Endocrinology B 1 M J 1933 B 557

Ownecological interest in endocrinoslow is higher for cent focused almost exclus set on the hormose disowarv and the anternor lobe of the gland and the is over a stance; indicated with or at least clooply insular); them is then set found in the placents and the unit of pregnant; owner. The sketchern Zondick test for pregnancy has perhaps done more than are with singly discovery to stimulate unterest and research on this subject. This is it has been found see that over 63 p. r cent of cases. When it has been or weakly positive in the early weeks of a known per maney, above on has often coursed subscope to

The quantitative estimation of the hormone of the auterior labe of the pituitary gland in the unie mabe of value in the diagnosis of hydricidora role choriopeoithelioni; and malienant growth FR

cially those of the genital tract

The author has been carrying on research a the gard 1 the effect of the hormones of the anim rule for the printing gland on tumor growth but so the results have been conducting 0 in interes in the similarity bet een cancer it sue and tropho has stated and the sound of the sound

The author calls attention to the importance of studying the patient with re and to her homone statu both before and after substitution theraps.

The conditions for which substitution therapy is suitable include functional bleeding a pecual to memorrhagia of puberty hab tual abortion and the memorpausal synd ome H rev W Frex MD

## OBSTETRICS

#### DEFCUANCY AND ITS COMPLICATIONS

Muret The Abdominal Wall Dur ng Preg sancy and the Puerperium (D s paro s lid m n les pendant l g tati n et les su tes de uches) G if tlob l 933

The author believes that the changes occurring in the abdominal wall during pregnancy are not only the result of passive and mechanical di tention as most ob tetrical textbooks teach but are biological phenomena a physiological adaptation to the con tents of the abdomen

Striæ gravidarum for instance appear sometimes

very early in pregnancy before the uterus attains a large size and are seen in multiparæ with a relaxed abdomen and flaccid abdominal walls. In 10 per cent of pregnant women they do not appear at all The author has noted that during the last twenty

vears the occurrence of strice in pregnant women has d creased. He ascribes this fact to better hygiene sports absence of corsets sun baths and exercise n the fresh air in childhood and adolescence hich modify the skin of the young girl He predicts that in the future 60 Let cent or more of women who have borne children will not have strix

Stratz and Barfoth d d not find str a gravidatum

in women of primitive races

During pregnancy the muscles of the abdominal wall undergo a hyperplasia and hypertrophy of their fibers which begin long before the uterus is palpable through the abdominal wall That is hy mul tipare sometimes feel the abdomen getting larger at the beginning of pregnancy

The author believes that all f the e changes depend chieff on certain endocrine gland -on the corpus luteum of pregnancy at first and then on the placenta. The hormones of the thy old hypophysis

and adrenal also have some effect

After d scussing the physiology f the abdominal wall during pregnancy the author revie s ts pathology He mentions excessive distent on of the ab lomen marked diastasis of the recti muscles and the development of umbilical inguinal and femoral hernix In hernix there i al o a congenital factor but the development of the abdominal wall and the diminution of the capacity of the abdomen by the pregnant uterus fa or the entr nce of omen tum r gut into the pre existing opening

After delivery the abdominal wall undergoes in volute n which continues for six weeks ir long r The is hastened and fac litated by the earing of a belt in the first days after del very by abdomir all exercises after the seventh day ard by the massage of the extremities The author arms against letting the patient get out of bed too s on for the purpose

of ha tening the in olution

The article is concluded by mention of a rew pathological conditions of the abdominal wall occur ring in the puerperium. These include subinvolution of the muscles of the abdominal wall in which the muscles remain more or less hypertrophied and dependrate with resulting atony of the wall super involution marked diastasis of the recti muscle causing bermation of the bowel and much discomfort and persi tence of an umlilical inguinal or femoral hernia appearing during pregnancy which i especially ant to occur when the woman re umes hard work before involution has taken place

IS C INDRU SIER M D

Blakely S B Abdominal Pain in Pregnancy J 1 1 1 1 1 933 C1 9 0

Eighty fi e per cent of women complain of ab d minal pain at some time during pregnancy

Much of the ab lominal pain is somatic ie ar ses in the pariete of the abdomen lure visceral pain is deen dull and hea y often intermittent widely radiating and imperfectly localized whereas pure somatic pain 1 more superficial sharp and stabbing limited to a smaller area more definitely localized and at times associate l 1th local tender

ness and muscular rig dity

Most abdominal pain in pregnancy is the direct or indirect result of either uterine enlargement or uterine contraction. Literine enlargement caus s pain by distention often vith or folloved by uterine e ntraction or by stretching or exerting pressure upon organs or tissues. Uterine contraction cau es pain chiefly by smooth muscle tension. In general its se crity is in direct proportion to the rapidity of de elopment of the cause

Age e erts no influence. I rim paræ complain slightly more frequently of abdominal pain than

multiparæ

The tall slender asthenic voman suffers most from stretching of the lo er part of the abdominal wall whereas the short stocky sthenic woman hose abdomen is short from the pubis to the ens form car tilage tend to have more p in in the upper part of the abdomen

The incidence of pain increase with each mo th up to the minth and then markedly decreases

Pan 1 more frequent in the lower than in the pper bdomen I am in the upper abdomen is often made vorse by sitting (pres ure increased) nd elie ed by standing (pres ure decrea ed) sud len increase in the intra abdominal pressure such as 1 cau ed by coughing sneezing and omiting may sta t or ggravate pain

In cases of vertex presentation pain seems to be slightly more frequent on the s de on which the child's buttocks are located. In breech presenta

tions distress in the upper part of the abdomen is

The anatomical sites of origin of abdominal pain in pregnancy are (1) the abdominal panetes (2) the uterus and the uterne contents and addexa and (3) the intestines liver bile passages and unnary CHARLES F DU BOIS M D Adair F L

r L An Ananyais of a Series of Vils e Cases of Torsem as of Pregnancy Am An Analysis of a Series of Non Con J 06 1 & Gy

Adair reviews 262 pregnancies with si ns of non convulsive tourmia The average age of the women was twenty nine years. The voungest woman was seventeen years old and the oldest forty six The average weight of art patients when they were first seen was 68 8 kgm the minimum weight 433 kgm and the maximum weight 125 lgm

The average number of pregnancies was 3 of the minimum 1 and the maximum 18

The weight showed an average increase of 8 40 Agm in an average period of the teen weeks which represents an average increase per week of o 65 kgm In 130 (54 per cent) of 40 cases the initial systolic blood pressure was under 130 in 82 (34 per cent) it ranged from 130 to 1/0 and in 23 (12 pe cent) it ranged from 1 0 to 200

Sixteen of 21 initial blood pressure readings above I o occurred in the last trimester of pregnancy The init al rise in the blood pressure was observed in the first four funar months in 6 (3 per cent) of the cases in the fifth and sixth lunar month in 14 (6 per cent) in the seventh and eighth lunar months in 38 (18 per cent) and in the minth and tenth linnar months in 3/ (/3 per cent)

The maximum blood pres ure prior to delivery occurred in the fifth and sixth lunar months in 12 cases (5 per cent) in the seventh and eighth lunar months in 20 cases (8 per cent) and n the ninth and tenth lunar months in 212 cases (85 per cent) The maximum blood pressure reading in the

puerpenum was on the first or second day in 98 cases (43 pe cent) on the third and fourth days in 50 cases (22 per cent) on the fifth and s xth day 33 cases (14 per cent) on the seventh and e ghth days in 27 cases (12 per cent) and on the ninth tenth and con ecutive days in 21 cases (9 per cent)

In the ca es of the patients who returned for observation after delivery the average blood p es sure was 138/89 the minimum 102/0 and the

Records of cedema were found in 66 per cent of the cases In 85 6 per cent of these cases albumin appeared in the urine at some time during the preg nance Casts were found in the urine in only 1 02 per cent Of 46 cases in which eyeground examina tions were made the findings were no mal in 30 and

In 13 cases the infant was born befo e it was viable. In 5 the pregnancy was terminated by abortion in , by hysterectomy and in 3 by

The onset of labor in 126 cases (48 per cent) vas spontaneous In 4 of these the infant was born be fore it was viable in 35 p ematurels and in 9 it term Of 23 cases (o per cent) in which labor was induced by drugs 10 of the infants were born pre maturely and 13 at term Of 58 cases (22 per cent) in which labor was induced by mechanical or med the mans or both 22 of the mants were born

Abruptio placenta occurred in 13 cases ( per cent) This is very much above the usual moderce

of this complication Placenta prævia and retention of an infarcted placenta each occurred once 1

markedly infarcted placenta was recorded in 23 cases The febrile morbidity in these cases kas There were 4 maternal deaths Two were d e to uracmia I was the result of puerperal sepes and I was due to chron c nephritis and cardiac decom

In institutions in which prenatal care i given there are fewer deaths from convuls to types of

toxemia and relatively more deaths associated with the non-convulsive types The non-convulsive types of toxamia seem to fall

into 2 main groups—one in which the symptoms develop rather abruptly in the later months of pregnancy reach their maximum at the time of labor and then tend to recede rather rapidly and the other in which the symptoms may be manifested early in pregnancy and become p oresistely work as the pregnancy progresses. In the latter the climit is usually reached in the later months of pregnance

but in some cases may occur in the early month Following delivery there is very slow retrooms s on of the symptoms and while some improvement is noted the patients return to normal very slowly at all Death may occur f om impairment of cardiovascular and enal function during the preg

Repeated pregnancies do serious damage espe cally in the second chincal group and should be prevented by sterilization of the pat ent whenever this is warranted by the seventy of the condition EDWARD L. COR TIL, VI D

Evans M D A Th L t Effects of the Torrmiss of Pegnancy J Obi & Gy @ Bu Emp

Evan claims that the man danger in p egnanci toxamia is n t eclampsia as has been taught but ch onic nephritis Of seventy six women with album nurra who ve e re-examined from four mooths to f ut tears after the r discharge two third were found to ha e after-effects Tuche (8 pe cent) had definite chronic nephritis 7 (to pe cent) had p obably chome nephnti sixteen ( 3 per cent) had simple albuminuma. In thi teen (10 6 per cent) there wa some other disease to account for the albuminuma The author draws the foll wing conclusion with regard to the remote

I If albummuria is present before the onset of abor for more than fourteen days the po sibility of he development of chronic nephritis is ery definite ncreased

2 A systolic blood pressure of 170 mm Hg or wer I dan erous When it persists for any con aderable length of time the advisability of termin

itin the pregnancy must be considered

3 The woman should remain in bed after the birth of the child until the albuminuma has dis appeared unle s there is good reason to suppose that the nephriti antedated the pregnancy

4 The older the woman with albuminuma the more liable she is to develop after effects The ultimate progno is seem to be more

fa orable in the cases of primipara than in those of multiparæ 6 A good prognosis can be given for the child if

it survives the first fourteen days The site of cedema and the amount of albumin and the pre ence or absence of casts in the urine do not seem to have any relation to the remote prog I THOR WELL WITHERSPOON M'D

#### LABOR AND ITS COMPLICATIONS

Colebrook L and Maxted W R Antisepsis in Midw fery J Ob 1 & Gy ac B 1 E p 1933 xl 966

Colebrook and Maxted of Queen Charlotte's Ho pital London pre ent the findings of their in vestigations regarding matern I mortal ty due to in fection in cases in which most of the deaths were due to the streptococcus pyogenes. In the first part of their article they discuss precautions to exclude in

fection from the genital tract The streptococcus pyogenes or hæmolyticus is not normally present on the skin of the hands and when implanted on the hands of the normal individual di appears spont neously after varying lengths of time When it i implanted in pus rather than in the form of a broth culture a longer time is required

for its d appearance In experiments reported by the authors bus or saliva containing the streptococcus progenes was rubbed on the finger and allowed to dry The effects of wa hing alone ant eptics alone and both wash ing and anti eptics were then determined the experi ments being carefully contrilled. In general the results showed that asking alone is not a sure means of ridding the hands of bacteria and offers no protec tion against subsequent infection A 2 r o aqueous solution of todine acting for three minutes a similar solution with a 3 to 4 per cent content of potassium iodide acting for one minute 30 per cent dettol paste acting for two minutes and und luted dettol acting for a minute and a half ga e excellent results. Dettol is non irritati g to the skin. Washing and then soak ing the hand in a 1 000 solution of b chloride of mercury or a 1 160 solution of lysol gave unce tain results. Washing for one minute followed by the rubbing into the hands of dr of 30 per cent dettol

cream for two minutes produced perfect sterility The use of either jodine or dettol i followed by pro tection lasting for from three to six hours

The authors give the following directions for

preparation for delivery

Wash the hand for two minutes in I warm water with a yellow soap bar and then dry them I ut on dry gloves Wash the gloves thor oughly with soap and water for a minute and then sterilize them by soaking for two minutes in a 1 50 aqueous solution of iodine with a 4 per cent content of potassium iodide undiluted dettol a i so solu tion of lysol or a r 250 solution of bimodide of mer cury or by rubbing in 30 per cent dettol cream

In the second part of the article measures to pre vent infection by bacteria already present in the genital tract or on the vulva are considered. The cleansing effect of soap and water on the vulva i emphasized. The authors recommend the use of a r per cent soft soap solution with a 2 per cent con tent of dettol They advocate also the application of dettol cream to the vulva every three hours during

Repeated attempts to sterilize the genital tract with dettol a per cent mercurochrome crystal vio let and brilliant green were unsucce sful Also un successful was the use of these and several other anti septics on infected blood clots. The most marked effect was produced by crystal violet and brilliant green HE RY S ACKEN IR M D

Cilliatt W The Contraction R ne in Labor JObic Gac Bi Emp 933 1 1 36

Gilliatt states that the contraction ring in labor is an extremely serious complication. It can never be foreseen and as a rule is difficult to diagnose Intra uterine manipulation is frequently undertaken before the diagnosis is made and in some cases i necessary to d scover the cause of the delay

I remature rupture of the membranes and intra uterine manipulation are usually cited as the two most common causes of the formation of a contrac t on ring but the folloving factors also play a role ( ) increased irritability of the circular f bers of the atterus (2) uterine inertia (3) the posterior position of the vertex presentation and (4) the oman's

The difficulty of making a definite diagnosi is well known. On abdominal examination any devia tion from the normal in the shape of the uterus is suggestive. The ring itself is often difficult to feel because of its position which i usually around the child's neck or at the level of the upper border of the symphys's pubis and because its presence is frequently masked by di tention of the bladder When the ring is felt through the abdom na! all it can be defined more easily during contraction than during relaxation of the uterus. On vag nal examination introduction of the hand into the uterus is not always necessay as sometimes the diagnosis may be made with conside able certainty when the head cannot be pressed into the pel is during a pain tions listress in the upper fart of the ab lomen is

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EDWARD L CORNELL, M.D. Frans M D A The Late Effects of the Tozemus of I egnancy J Obl "C) a BI Ent

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Gilliatt W The Contract on Ring in Labor I Obst & G at I i L p 933 1 936

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the results

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finement such as the husband vith a sore throat or child with impetigo or a discharging (ar may contaminate a tovel or hand basin used by the mother or individe The prevention of puerperal infection iesin an absolute a cput toilet of the hand of the attendants at del very the use of rubber glo cs, and anti cpute preparation of the vulva

TIBERT II HOLMAN M D

Ri ett I C The Diagnosis of Puerperal Sepsis
P 1 11 J 933 1 726

Rivett classifies the different types of puerperal

Rivett classines the different types of puerpera sepsi as follo s

- sepsi as 1010 s

  1 Local sepsis in the genital tract
  2 Spread of infection to the blood stream—
- septicem a
  3 Spread of infection to the peritoneal civity
- -pentoniti
  4 Infection spreading into clot in thrombosed
- veins
  5 Direct extension along the fallogian tubes or
- lymphatic spread to the cellular tissue at the base of the broad ligament—salpingiti and pelvic celluli ti
- 6 Infection of the urinary tract usually with the bacillus coli
- When septicæmia is suspected at Queen Char lottes Hospital London aerobic and anaerobic blood cultures are made as the temperature is rising In the author's cases of streptococcu hæmolyticus septicemia the mortality has been well over 80 per

cent whereas in those of blood stream infection due to anaerobic streptococci it has been 20 per cent

In an effort to liagnese peritonitis at its onset the author found that the symptoms differ from tho e which have been considered classical. There is usually a typical picture of local infection of the genital tract but frequently the tongue is clean and moist. The patient has an anxious look. Ab. dominal pain 1 rare occurring in less than a third of the cases but rebound tenderness is present The abdomen often moves well with respiration Frequently there is pain y hen the uterus is moved from sid to side over the promontors of the sacrum Abdominal rigidity is present in only about 12 per cent of cases and vomiting is by no means com mon Often there is diarrhora. When this occurs after two or three days of pyrevia it is strongly suggestive of early peritonitis. The most common sign of early peritonitis; distention of the abdomen with tympanites This vas present in over o per cent of the cases of early peritonitis seen by the author By the time free fluid can be demon strated on clinical examination, the patient is beyond help

The author believes that drainage is the treat ment of choice in early pentionitis. He makes an incision from 1 to 1 in long just above the level of the fundus. Through this he inserts a special perforated tube into the cul de sac and asyirates any fluid that may be present.

ALBERT W. HOLA VE. M. D.

## GENITO-URINARY SURGERY

#### ADRENAL KIDNEY AND URETER

Mitclell D R and Scott J M Studies of Urinary Acidifiers and Anti eptics in Relation to Poeli tisand Cystitis Br : 3 Erol 1933 1 225

I rom clinical studies of urinary antiseptics and ac diners the authors draw the following conclusions Immonium chloride acid ammonium thos thate and sodium bezoate are effective urinary aciditiers but a change of pll has no influence on

infection 2 Herritesorcinol tyridium and helmitol have given no evidence that they are of value as urinary antises ties

3 llexamine in well acidifed urine cures at least one third of the cases of non surgical piel tis and c) Stitis

4 Heramine is I becated at the ki lnes pelvis at least and is as effective for pyelitis as for cystitis t There is no method of determining which case will re pond

6 Pert tance to formaldehade may be due to in d vidual characteristics of the organi m

I ocal infection (colonic absorption) seems to be a factor in the causation of persi ting uringry in

8 In simple pyel us of pregnancy unnary infection does not disappear until after delivery CLAUDE D H LHES M D

#### BLADDER URETHRA, AND PENIS

Riba L. W. and Sanner J. F. The Treatment of Urethral Strictures of Small Caliber by a New Method Leeliminary Report J iel 1933

The authors describe and advocate a new method of treating troublesome small urethral strictures e pecially when they are multiple. The tendency during the last ten years seems to be to ard con servative treatment the stricture being cut only when d latation is impossible The authors use sounds or bouges for urethral dilatation and a ure throtomefor cutt ng Some strictures if cut urst offer less res stance to dilatation. The following goups of patients object to onservative method of treat ment (1) the may r to of colored patients ( ) pat nts with an itritable urethra (3) patients tho a e hiper sens tive to pain (4) patients with a u mar infe tion who develor set six following in trumentation (c) patients with soft bleeding strictures (6) those with fibrotic traumatic of concenital strictures ( ) those with strictures of the penoscrotal angle (%) those with resil ent strictures (9) those with a ure thra which i difficult to instrument (10) elderly nationts by whem the shock of sounding is not well

borne and (11) patients who do not ha e time to undergo a long course of prethral d latation Secti a of the usethra is associated with the dar e of ham orrhage and sepsis has a certain mortality and nees

sitate hospitalization for a variable length of time With the recent development of the cutting our rent the authors concerned the idea of u ne such a current to cut urethral strictures. They have d vise I an electro urethrotome which may be introduced into any trictured urethra pro rain a tu form boughe can be passed. This instrument carres a cutting loop which may be expan ed up to a desired caliber just proximal to the stricture or sire tures The cutting current a turned on and the a c throtome withdrawn The advant ges of this meth 1 of treating small strictures are the absence of sock pain and active postoperative harrorrhage

LLUIZED HART VID

Sanchis Lerpina \ Our Operative Procedures in P nobalanic and Penoscrotal II pospadas (Nursetro proced m ntos perst nm a 1 ho 1 pospad as penob lan cos 3 penose ota es 1 1 k d med c me rescal tott 1 0%

The various methods for the correction of h ponad as may be divided into three rro po (1) those in which the plastic flaps are taken from the t tu-(2) tho e in which they are taken from the abdiren or scrotum and (3) those in which free planic 12% are employed

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The first step in the procedure is deflection of the urinary current by means of cysto tomy Later with the pen's stretched up and onto the abdomen parall I incisions through the skin of the pena are made from the glans to the abnormal opermargins are then d sected somewhat medial somewhat wider and longer peu cled kin flap is obtained from the scrotum below folded upwa di and satured to the penile flap a new urethra being thus coast ucted The denuded surface remain. s then co ered by means of another ped cled far from the s r tum and the scrotal nound closed William F Merces WD

Lal II II M Ombredanne s P uch Operat of for Hispo padias fen S ¢ oss c 20 513 Ombr danne bas reported 250 case in which he p rformed his pou h operation wi bout a fail re The author has completed the operation in 5 ta-cs without a fa re The operation does away with lealage an ind elling catheter external u ethrot omy and cystotomy It is far superior to the tand and operations

Lie usual incur ing deformity is corrected by a transverse mixion jut above the opening He above the opening He above bands are cut and the corpora cavernosa freely expo of He meatur secrede and their or on becomes an oblong gap. The elges are su truerd together and the penis i plreed in hyperettension. Il prerettension il maintained until the tissues become pl able from two to four mouth.

The per phery of the sac 1 outlined with a linen pur estring suture. The proximal halt of the flap equals the distal which extend from the meatus to the tip of the gland. The 1dth bets een the su tures 1 one third the circumference The suture extend to the tip of the glans back to its insertion The inci ion : 15 mm external to the suture The proximal half of the flap is carefully dissected to the meatus in which a catheter is placed to prevent perforation of the mucosa. The part of the flap which extend from the meatus to the glans equal to one fourth the circumference is not dissected as it furnishes the blood supply of the urethral sac The incision is extended on each side to the points of the extended prepuce but connected on each side by a transverse inci on in the mucosa of the prepuce 2 mm above the furrow of the glans. The external edges of the horizontal and transverse incisions are The pursestring uture i tightened room being left for the passage of urine

A's shaped buttonfole is cut in the preputual flap the vertical arm starting at the level of the col lar of the glans in the a scular area. This is extended through the sain over the fager. The ves els and tissue are pushed asude. The glans i then ple of through the opening so that the raw surface of the flap is next to the inferior surface of the period the flap is next to the inferior surface of the period the flap is next to the inferior surface of the period to the flap is next to the inferior surface of the period to the flap is next to the start of the same that the same than t

lx The edges of the ilap are united. The edges of the remaining raw surface are brought together, and the distallend is united to the flap with a mattress surface.

For a few days after the operation the pens is

For a tew days after the operation the pen s is tied to a frame which bridges the high to prevent folds: Careful po toperative care avoidance of interference with the nutrition will prevent large codema. If codema i excessive puncture with the impettion of mild adrenalin is indicated. With the exception of a bland anti-cptic powder no dressings are used.

About four month later the sac or tubercie is unted to the glans Retraction, rande in oppo to direct ons with an Allis clamp at the summit of the glans and another of up at the summit of the tabercle. This expo es the detail of the urethra. Hair may be present in the cutaneous inning. The complete thickness of skin with the hair! of sected There is sufficient mucous membrane on the roof to furnish a complete covering if needed. Tissue be seen the clamps 3 to a min in thickness; seen ed.

Internally a strip of mucosa from 5 to 6 mm broad

as rerived. Removal of the nuccus of the glands alone is done. This prevents bleeding and gives a tax surface for union. One layer of sutures is required in the cases of children but two in those of adults. The inner layer consists of fine gut the end of which project through the meaties and are inotted. If a rounded tubercle is absent because of extraction or sloughing at transvess encisions in made belo whe meature and the edges are sutured together in a horizontal plane.

In a perneal and vulvoperneal hypospadias the perneal onfoce is made into a penile orlice by using tissue back almost to the anus Small scrotal flaps are used to cover the mass of the sac. After the onface is formed the method is continued as described. When operation is necessary for glandular hypo padias the method used for penile hypospadias is used.

The end results are a triangular meatua nd a small piece of brown preputial skin on the under

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The operation 1 contra indicated in the mild glandular cases with a straight penis and in advanced cases associated with hermaphroditism. The best time for operation 1 between the ages of six and eight jears.

The author's conclusions with regard to the operation are ummarized as follows

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3 It forms a normal organ uninfluenced by erection

4 Gentleness thoroughness and careful post operative care are essential
The article is well illustrated

CLAUDE D PICKRELL M D

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A striking finding in cases of squamous cell car cinoma of the penis is the practically constant pres The literature reveals complete ence of phimos absence of penule carcinoma in circumcised Jen Hence certain conditions associated with or result ing from phimosis may be factors in the development of penile carcinoma. These are retention of urmary products the accumulation of desquamated epithelium and the serretion of Tyson's glands and lack of cleanliness of the preputial sac. In time the secretion of Tyson's glands which contains a high percentage of fatty material may decompo e under the action of ferments become rancid saponify and produce other substances which may directly stime. late epithelial growth. That the tumor is the direct result of the stimulating action of substances accumulated or retained from the urine or Tyson glands is proved by the fact that practically all of the tumors originated in the epithelium directly expose t to the smegma a they arose from the glans penis the inner surface of the prepuce or the

## GENITO-URINARY SURGERY

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- 6 Resistance to formaldehyde may be due to in divid tal characteristics of the or anism
- Focal infection (colonic absorption) seems to be a factor in the causation of persisting urinary in fections
- 8 In simple pyelitis of pregnancy unnary infec tion does not disappear until after delivery CLAUDE D HOLNES VI D

#### BLADDER URETHRA AND PENIS

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The authors describe and advocate a new method of treating troublesome small urethral strictures especially when they are multiple. The tendency during the last ten years seems to be to vard con servative treatment the stricture being cut only when dilatation is impossible The authors use sounds or bougies for urethral d latation and a ure theotomefor cutting Some strictures if cut first offer less resistance to dilatation. The following groups of natients object to onservative methods of treat ment (1) the majority of colored patients (2) patients with an irritable u ethra (3) patients who are hyper sensitive to pain (4) patients with a u mary niec tion who develop sensis followin instrumentat on (5) patients with soft bleeding strictures (6) those with fibrotic traumatic or congenital strictures (7) those with strictures of the penos rotal angle (8) those with resil ent strictures (9) those with a ure thra which is difficult to astrument (10) elderly patients by whom the shock of sounding is not well borne and (zz) patients who do not have time to undergo a long course of urethral dilatation Section of the urethra is associated with the dang rolb m orrhage and sep is has a certain mortality and neces sitates hospitalization for a variable length of time

With the recent development of the cutting cur rent the authors conceived the idea of using such a current to cut urethral strictures. They have devised an electro-urethrotome which may be nt oduced into any strictured urethra provide a file form bougie can be passed This instrument carner a cutting loop which may be expanded up to a de sired caliber just proximal to the stricture or stric tures The cutting current is turned on a d the ure throtome withdrawn. The advantages of the method of treatin small strictures are the absence of shock pain and active postonerative hamorrhage

CLAUDE D HOLNE MD

Sanchis Perpina V Our Operator Procedures in Penobalanic and Penoscrotal Hypospadas (Nuest s h oc d mi ntos one ton s s 3 p n crotales) 4 # h p sp di ne ob la d med c up yespe 1 1933 x1 980

The various methods for the correction of hypospadias may be divided into three groups (1) those in which the plastic flaps are taken from the penis (2) those in which they are taken from the abdom a or scrotum and (3) those in which free plastic flaps are employed

The author's techn que is of the second type use being made of pedicled flaps from contiguous regions

principally the scrotum

The first step in the procedure is deflection of the unnary current by means of cystostomy Later with the penis stretched upward onto the abdomen parallel incisions through the skin of the pen s are made from the glans to the abnormal opening The margins are then dissected somewhat medially some hat ider and longer pedicled skin flap is obtained from the scrotum below folded upwar and sutured to the penile flap a new urethra beirg thus constructed The denuded surface rem ag is then covered by means of another ped cled flap from the scrotum and the scrotal wound closed Unlies R Meerer MD

#### Lyle II II M Ombrédanne a Pouch Operati A # S f 1933 xcvn 5 3 for Hypospadia

Ombredanne h s reported 250 cases in which he performed his pouch operation without a f jure. The author has completed the operation : 5 cases without a failure This operation does a a) ith leakage an induciling catheter external urethrot omy and cystotomy It is far super or to the stand ard operations

The u nal incurring deformity is corrected by a transver e incision jut above the opening The form band are cut and the corpora caverinear freely report of the meature increte land the inci no becomes an olloing gap. The edges are sure together and the pent u judeed in hyperetten sion. In prefer tension is maintained until the time to be the public from the time to the output for the time to the four months.

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wature

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\gai S h The Etiological and Pathological As pects of Squamous Cell Carcinoma of the Penis Among the Chinese im J Cancer 933 x 259

A striking finding in cases of squamous cell car tinoma of the penis is the practically constant pres ence of phimo is The literatu e reveals complete absence of penile carcinoma in circumci ed Jens Hence certain conditions associated with or result ing from phimosis may be factors in the development of penile carcinoma. These are retention of urmary products the accumulation of desquamated epithehum and the secretion of Tyson's glands and lack of cleanl ness of the preputial sac. In time the secretion of Tyson's glands which contains a high percentage of fatty material may decompose under th action of ferments become rancid sapon fy and produce other substances which may d rectly stimu late epithelial growth. That the tumor is the direct result of the stimulating action of substances accumulated or retained from the urine or Tyson's glands is proved by the fact that practically all of the tumors originated in the epithelium directly exposed to the smegma as they arose from the glans pen s the inner surface of the prepute or the sulcus The possibility that the effect of the smegma may be latent for a long time may explain the de velopment of a penile carcinoma when circumcision was done several months or years previous to the

appearance of the neoplasm

The greater frequency of penile cancer in the Far East than in Europe and America may be attributed to the practice in the Far East of applying highly irritating plasters in the treatment of gonorrhica chancre and chancrods Of the author's patients of per cent den ed gonorrhea infection and of those who admitted gonorrhea none mentioned the previous use of a plaster. The author attributes that the previous and of the cancer in chances to fact of the cancer of the courtered of cancer in the Chinese than in Westerners may be due to recall differences than in Westerners may be due to recall differences

#### GENITAL ORGANS

Eng 1 W J and Lowe W E Ind vidualizing the Prostat Pat in the Selection of Tr at ment J A M 411 1933 c 136

This article is based on 70°S resections performed in Jarce representing all types of prostatic en largement and carefully followed after operation In the 34 cases of malignant obstruction of the prostate resection of the obstruction of set of the prostate resection of the obstruction was followed by radium implantation or deep \ 1 at the approximation of the prostate resection of the obstruction of the obstruction of the prostate resection of the obstruction of the prostate research that is a set of the patients were alive and comfortable and all were relieved of their district using \$6.000 mp. The prostate of the prostate research of th

The cases of beingn obstruction are d aded into 2 groups -28 which were poor it is and 132 which

were good risks

The poor n k cases were those of senile or very obese patients with degenerative changes and complications of the 28 patients who were poor risks 22 are free from urmany discomfort and have only a small amount of residual urme 4 have not been relieved and 2 have refunded.

In the cases which were good surgical n \(^1\) routine routine cysto wethro opice a minations were made and the indications for operation were determined according to Randall's classification Such cases include those which are ideally suited for transurethral resection those unsuited for such resection and a small group of borderline ca es in which resection can be done first and if unsuccessful may be followed by pro tatectomy. Many of the best results of resection were obtained in the borderline cases. Nucleon of the op patients with a borderline cond tion reported completely on partially studients, results.

The authors discuss also a group of so-called neglected cases of postatic conditions in which operation 1 feared by both the patient and the general practitioner. For such cases resection ideal as it is more conservative and less formidable than mostatectom.

The immed ate mortal ty of resection in the 194 cases reviewed was 1 5 per cent. The authors regard

resection as a very efficient conservative proced re which in many cases may be done instead of prostatectomy Mayarre Mrin Mp

Alcock N G Prostatic Resection J in 1

In the past two verra block, his done about to tran urethral resections of the promate. The report summarizes his observations in pociones, title resections performed in cases of the tyre in which he formerly performed prostatetom. The report does not include resections for bars and end an lobbes. The resections are compared with protatectomes performed in a hospital be the same jurked, the properties of the provided of the same jurked, which is not case cared for by the same jurked, which is not provided to the provided of the surgicial properties of the surgicial properties of the surgicial provided provided the provided pr

Alcock has added mnovat ons (t) are expensions and urethingrams made before and after resection to deletrimine the scress of resection is overcoming obstruct on at the neck of the bladder and (a) more frequent performance of the operation at a tages the inducation for the second stage to a stage of the induction for the second stage to present user though and of the first resection. The second resection 1 always easier and permits the

removal of a larger amount of tissue
Uncontrollable bleeding during resection is due to

faults technique and should not be blamed as the method. In none of the author's cases ask cristor om, necessary for the control of hamorphage and in none was hamorphage responsible for dea h. Late hamorphage is quite common. In about of per cent of the case reviewed there was some minal hamatura during the third fouth or fifth

neel, after the operation. The author belaves this comes from granulations that form or the trace of resection rather than from slow lung. The opinion is based on the findings of pot perturences of the reason of

plication of resection is infection but it is est so often fatal as after prostatectom; it is due to necrosis flowing the resection in the presence funne neer i favors the multiplication of bacteria with consequent sense and u zero.

\tag{\text{troublesome but not serior} sympt make resect on is urinary frequency. With improvement in the terchnique of the operation the incidence of

resect on is urnary frequency. With important of the technique of the operat on the anothere of the complication; lesse ed. Res dual urner after resection is gradually decreased. If it does not dyappear within a few eeks another resect of it dicated.

In the 400 cases of esect on eviewed the a er age sta n the hosp tal was se enteen and a half days as compared with an average stay of sevent

one days in the cases in which prostatectomy was done Aled's hich previously cared for a prostatec tomy case is no valuable for a rejection cases with a correponding saying in nursing care

In the 300 cases treated by prostatectomy the total mortality was 142 per cent but if the deaths occurring between the first and second operations are excluded the mortality was less than 5 per cent. In the 400 cases the total mortality vas fees than 5 per cent. If the 400 cases and 11 in the last 300 Links 15 per cent of the 20 deaths 15 00 curred in the first 100 cases and 11 in the last 300. In this 12 5 greections in which there were only 2

deal's the mortality va sless than 1 per cent.
In conclusion Alcock states that be still continue doing resections rather than prostatectomes until a better method is introduced. He now does rect too in many poor risk cases in v. hich prostatectomy. I feared "With increasing experience the time required for the resection is dimmisshed a greater amount of it use is removed the postoperative course becomes smoother and the results become more creation and pinch more still factors.

M LRICE MELTZER M D

If rman I and Greene L B Transurethral Pr static Re ection Anal s s and Studies of Results J im W 125 1013 C 1358

Some December 1931 the authors have dome eighty transurethral resections for beingn prostatic hit epilasia. The primary mortality was 3,7 per cent. All of the seventy hie patients surviving are free from mechanical disturbances. The average length of time required for convalescence is eight weeks. In uncomplicated cases the average length weeks in uncomplicated cases the average length of time the patient remains in the hospital varies from I've to eight days and in complicated cases. Some c. of prolonged pre-operative treatment 15 house of prolonged pre-operative treatment.

th rty six days I rom the r experience the authors conclude that the ideal case for transureth al resection is the rela tively early case of pro tatism without complica tions In thirty to of their cases of this type no pre operative treatment vas given and recovery was rapid and uncomplicated. In the great majority of cases I la ge prostate the skilled technician can remove the prostate b tran urethral resection ith a primary mortality no g eater than that of pros tatectomy Of the advanced complicated cases v th a very large growth transureth al resection is im Fossible because of mechanical factors or complica it n in 10 per cent In an additional 20 per cent its res its are poor becau e of me h nical factors or complicate as and open peration i preferable

MIRIMIZEMD

Fedh, J. Ban mond T. F. Riet s. E. W. Irwin W. A. and Others D. cu. i. non I er Urethral Tr. tm. nt of the Enlarged Prostate P. R. Soc. Med. Lo. d. 03

PARRIDGE said that per urethral methods of treat og the enl ged prost te ha e em el the back

ground in England partly on account of the populantly of suprapular prostatectomy. Fewer than 10 per cent of his cases have been suitable for per urethral diathermy. There are three methods of attack.

1 Simple diathermy electrocoagulation (Beer and Collings)

2 Disthermy punching In this procedure the glandular projection is coagulated and then I unche I (Walker Kirwin Bumpus and Caulk) 3. Resection by means of an electrotome (Davi

3 Resection by means of an electrotome (Dav. McCarthy Stern and Canny Ryall)

Exerage began to use yer urethral treatment in 1926. He depends chiefly on electrocoagulation. There are two di advantages to this treatment—the slowner s with which the results are obtained and the danger of serous.

In 1028 1029 and 1030 Everidge made extensive trials with the punch. He gave up the punch operation because the scope of the punch encroached upon the ureters and even if the ureters were not damaged the crdema and sensis favored ascending infection.

He stated that the technique of resection is by no means simple and only those familiar with the use of the cystoscope or ureth roscope should attempt it Resection was followed by alarming harmorrhage in only one of his cases but like the punch operation

is associated with the danger of sepsi.

The obstructions which Everidge regard as suit able for treatment by per grethral diathermy are

able for treatment by per urethral diathermy are (i) intravesical projections (2) median bats (3) fibrotic prostate (4) postprostatectoms ob truction of a diaphragmatic type (5) certain types of carcinoma and (6) extravesical enlargements (visto scopic examinations with measuring of the residual unineare resential

The types of patients to hom the method is applicable represent all of the poor n k cases 'even to his of E cridge's patients ha cheen' Illo ed up. Their average age's as sixt, four and seven tenths sear to the control of the contr

noma and three a po tprostatectom, ob truction

The three postoperative deaths in Ever dge's

cases were all tho e of patients v ho wou'l probal.);

have die l'after an open operat on

In fifteen assessuprapubled amage was nece sart In fift three electrocoapulation alone a so done in four a duatherm punch operation in thirteen a resection and in to electrocoagulation the resection. Some blee ling occurred but the most eriou complications were due to stepsis. Operation as followed by mild incontinence but on the whole the results weregraft forms.

Everidge believes that the per urethral operation will continue to be used but that it statectoms can

1 of vet be abandoned

HAMMOND said that except in clero is of the

urethral punch operation have been less satisfactors than those he has obtained by open operation. With regard to resection he has come to the following conclusions.

y When the obstruction is at the bladder neck trans-urethral resection is preferable to prostated tom;

The treatment of the enlarged pro tate by re section is still in the experimental stage. For the present it should be confined to case with a contraindication to prostate tomy.

3 Pro tatectomy is still the operation of choice for the simple enlargement

Riches said that if the greatest use 1 to be made of the trans-unchinal operation it should be employed on its ments and not merely for cases too far advanced for prostatectomy. The trans unchinal operation gives excellent immediate results in cases of relatively early janulative enlargement in exercisions and in certain cases of librous prostate and calculous pro-tailute. However, it is necessary, to find better pro-tailutes and the pre-tailute cases of the pro-tailute and the pro

IRMN characterized per urethral treatment as wrong in principle and asked why a proved operation such as prostatectomy should be abandoned for an unsatisfactory partial operation

Morson emphasized the grave danger of sepsis

following trans-urethral procedures

WINSTEA WHITE also called attention to the danger of epss in trans wrethral treatment. He emphasized that the trans wrethral operation is not be regarded as a muor procedure and that following it is use the urne is filled with pus and d bins for odanger. He stated that in the cases of patients with writing he will be a mindfelling calleter and considers at coundertake a cutting procedure only when is satisfied that the conduction has been improved the is satisfied that the conduction has been improved.

HITBY stated that the prostatic symptoms are due to a pathological prostate producing obstruction and that the only satisfactory was to deal with such an ob truction is enucleation by the suprapub c or perineal route. Until there is convincing proof that the entire prostate can be removed by the per prethral or eration so that no septic for are left he will regard this operation as against the practical principles of surgery He bel eves that at the pre ent time the per urethral operation is indicated only for removal of the prostatic bar with the punch and this is an infrequent cond tion. While the fibrosed pros tate might be treated by the per urethral method he has never seen a case which could not be treated Ethrer Hess M D by the suprapubic operation

Valv rde B Lavage n the T eatment of Chron c Vesiculit s (Le 1 x e des écules dans le tra tement des permatocysules cromques) I durol mél 1/hr 1933 xxxx 62

The importance of the local and distant effects of chroni gonococcal infection of the eminal vesicles cannot be overemphasized because too ofte patients who carry a latent infection are discharg its curied. One of the most important signs of this feetbon is a persistent morning deep. After the ough treatment of the u thin and prostate and be deene of the ure thrill catarrh a persistent morning drop can come only from the semantly of the property of

Other symptoms of infection of the em at recles are local pains in the perior in pease or tencles are local pains in the perior in pease or tencles painful ejaculation and general pails of a thermatoid character Recurrent statchs of epilymits are a certain indication of sen, alvantion Fremature ejaculation and impolence as common its a result of these symptoms are common in a result of these symptoms are sential rescribes as four of infections is effectively and the distant maturiestations of such for senumerous and often grave.

When the standard treatment of the seth-projected and seminal vesself elease per viscous in the seminal vesself elease per viscous in the seminal vesself large is necessified to the seminal vesself large is necessified to the searcording to Luys modification of elicials over the according to Luys modification of elicials over the large solution. The results have been mot gaing Eight care are reported in detail. We remarkable among them was a case of check generalized externation demantities which up promptly cured by elimination of the vescaling the semination of the vescaling the vescaling the semination of the vescaling the vescaling

Counseller \ 5 Cryptorch dism The Treatment and Results in 100 Lases J L | 1933 222,3

Approximately on per cent of tested seed with the scottum at about the eight month of feat life. For some unknown reason to per cent are not use pleased ascended at both a few do not deser duth a few needs after birth and some remanulation of the seeds after birth and some remanulation of the seeds after birth and some remanulation of the seeds after the seeds are that the seeds are also also the seeds are shortened by fibrous bands were the seed are shortened by fibrous bands were the seed at the seeds are shortened by fibrous bands were the seed at the seeds are directly and the seeds are directly and attent to tengthe the cord the test was full attoph.

On the bass of our present Liouvidelge these detained for orchopers, are the prevention of strephy of the testis and the preservation of spermior period for the testis and the preservation of spermior period protection. Evidence previous by established to others clearly prove that if a testis is not placed in the crotum before pubers progress of edges which could be compared to the contract of the crotum before pubers progress of edges with the country of the country of the country of the country of the country will not develop in the same was as the testis to this breed mow while in the dependent part of the seroters.

The t-pe of orth open to be carried out in the one which will climately man tain the tenis in the bottom of the so otum. If i important to robate the svermatic vessel completely unthout many of occose the tunical vaguals. If the scrotum is ridim natary or retracted some t-pe of scrotal bax in

is e sential to secure the bett re ults. The most favorable time for the operation is before the favorable time for the operation is before the four teenth, year of age. However, the test is may be placed in the sections assistive only even in neglected cases and this should be done whenever possible lifthe test in the other sides in sormal orchidected cases in the patient is beyond the age of puberts, the tests is markedly atrophic and the spermatic vessels are unusually short. Keplacement of the tests is in the abdomen with section of the vas deferens or if the non-de-cent is blateral replacement between the transversalis fascia and the peritoneum may be indicated in a small perentiage of case.

Of the patients whose cases are reviewed the youn est was under four years the oldest was sixty four years 62 per cent were under twenty, five years a dayper cent were between five and fifteen years of

a e

The operative procedures in these cases included replacement of the testis in the scrotum by the Bevan of retation or some modification thereof the Torek operation and orchidectomy. The Torek operation p oved to be the most sati factory procedure being successful in oa3 per cent of the cases.

#### MISCELLANEOUS

Cole II \ Lymphogranuloma Inguinale the Fourth Venereal D sease Its R lation to Stricture of the Rectum J Am M is 1933 CI

Lympi ogranuloma inguinale is a distinct granulomatous entity involving the lymph nodes. It is generally of veneral origin. Viter an incubation period of from one to several weeks and not neces sarily accompanied by a primary sore a chronic bube formation appears and goes on to suppuration

In the female and rarely in the male the lamph nodes around the lower portion of the rectum may be myolved Frequently the inflammatory reaction results in stricture of the rectum Occasionally of the female there may be involvement of the lower vaginal wall and labs in the form of a chronic ulcera tive elembantiass—esthomene

The cause of lymphogranuloma inguinale is a fitrable virus which can be transferred to several of the lower animal (monkeys rabbits v hite mice guined pixs)

A specific diagnostic cutaneous reaction (Frei reaction) has been evolved. The emulsion material

from unbroken involved nodes: a used as the antigen. In the cases of a series of naturities suspected to have had the disease previously a positive Fire reaction was obtained. Among them were two with a history of bubb thirty years previously and one with usuch a history between thirty and forty wears previously. Apparently the allergy of the skin persists throughost life. Thirty seven cases of Jimpho granuloma inguinale with bubb formation two cases of esthomene and thirteen cases with anorectal

symptom and stricture of the rectal wall show ed a positive Frei reaction and man gave no history and presented no signs of syphilis or tuberculosis Patients with bubo formation who were seen early responded compiratively vell to surgical excision of the involved nodes or to intravenous njecti ns of a

solution of antimony and potassium tartrate.

As the case reported were all seen in one clinic in the course of a year the author conclude that the condition is by no means rare in America.

FIMER HES M D

## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

#### CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Abel A L Thomson G and Hawksley L M Generalized Ostelits Fibrosa A Case Success fully Treated by Removal of Parathyroid Tu mors Lav 1 1033 ccrt 523

Generalized osteitis fibrosa is characterized by videspread resorption of bone which is associated ith hyperplasia of one or more parathyroid glands hypercalcemia and a marked increase in calcium excretion It was first described in detail in 1801 by von Recklinghausen who distinguished it from osteomalaçıa In 1007 Erdheim noted the associa tion of parathyroid tumors and orteomalacia and since that time many cases showing this association have been reported Mandl in 1926 was the first to explore the neck and remo e a parathy rold tumor in a case of generalized osterti fibrosa. In recent veacs much attention has been given to these cases and careful biochemical stud es have been made. It has now been established that the lesion is as oriated with a high blood calcium a los ered blood phos phorus and an increase in the blood phosphates The excretion of calcium in the utine is greatly in creased. These changes are similar to thos produced by large doses of parathormone

Generalized o test s fibrosa occurs at almost all ages in both sexts but is most common is middle aged nomen 'Apparentls' some unkno is stimulos causes hyperplasia of the parath roid glands inche results in the excessive production of parathormone and the hyperparathy nordism causes a b p real camina at the expense of the ossous reserves the increa of excertion of calcium in the unine representing the attempt of the body to maintain the normal

calcium balance of the blood At autopsy the bones are found to be deformed and so softened that they can be cut with a knife They contain many cysts and red bro n nodules thich may erode the cortex lathological f a tures are common The outstanding change bown by micro on examination are common The out standing change sho in by microscopic examinat on is an osteoporosis with lacunar resorpt on and fibrosis of the marrow Collections of large osteoclasts and deposits of new spangs bones are also seen to ether with costs resulting mainly from degenerati e changes The parathyroid tumors re lobulated range from vellow brown to red and may reach the ize of a hen see The size of the tum r seems t be unrelated to the seventy of the bone is 100 and the presence of the tumor may be easily o erlooked even at autops. It is seldom possible to palpate the tumors as they are often hidden deep in the neck o upper the as

The symptoms of parathero d tumor a e u all bone pain and tenderness associated with obite s tumors deformities or fractures. In more ma tecases there may be muscular hypotonia extraintest nal disturbances thirst pol una anderson tion Roentgenography reveals generalized rare'st tion of the skeleton with numerous c sts 4 seement of bone removed from the tibia will show the peare bone changes even if it is taken from an apparent uninvolved area. Chemical examination shows te blood calcium to be from 12 to 20 mgm per 100 c.cm as compared with the normal of from o to 11 mm the plasma pho phorus to be from 1 to 1 mgm. 15 compared with the normal of from 2 5 to 3 5 mgs and the plasma pho phates to be sometimes over a unit per cubic centimeter as compared a h the normal of o 15 unit. On an or linary diet the excre tion of calcium in the urine may be increased up t from x to eight time the rormal of 03 gm is twenty four hours

In the differential diamnost focal oste us throst must be considered first. In this condition has be changes are similar to those of generalized outsuffibross but are localized in one area, as shown be roentigenograms of the skeleton. The blood cilium and plus phorts are normal.

In Paget's disease the outstanding chance is to period teal proliferation of bone and the parath to are not involved. The blood calcium and phosphir's are normal but the plasma phosphatase is high

Osteomalaca is an adult form of inclets die to a defencen of 1 stamm D occurs them him to with has been nadequate and respond to antirabilities of the stammar of the stamm

In cases of multiple melomata the tumors are located main! in the flat bones and Bence-Jones protein appears in the rine B ne destruction to cause an ele at on in the blood calcum b t the

blood phosphorus is also increased

Mithout treatment the proof is of generalized octation to so until a crable. The road to mid to progresses causes pain empty and and emacution of e-entually terminates in deth Following mo al of the pa ath road tumor the bone pura usuall cease mendated the chemical chiracter of the blood return it normal metastate calle of the blood return it normal metastate called propose in the lang and deswhere disappears and the general health mitroves. The sam growth is more officially the proposed of the day of the language of the langu

on a high alc in diet i llowed b explirate of the

neck under general anasthesia and removal of the paralty tood tumor. Wide exposure and a thorou b search are necessary. An enlarged gland may lie behind the croophagus in front of the upper dorsal vertebre may be associated with the thymus be hind the sternum or may be embedded in the thy roid.

Tostoperative treatment is important as historical calcirmia or team mas develop A high calcilland and the administration of calcium factate by mouth in large doves (from 30 to 60 get three times a day) should be ordered. At the first sign of tetam calcium should be given intravenously, and if the tetam persists yo units of paratherizone should be given hypoderic cally three times a day determine time and the state of the state of the state of the state and the state of the state of the state of the state of the state state the operation.

The di cussion of the disease is followed by the detailed report of the case of a woman fifty eight years of age who ha I become gradually weaker over a period of two years and had developed a painful swelling over the left tibia Roentgen examination showed the swelling to be a cystic bone lesion and b opsy revealed the changes typical of osteitis fibrosa The calcium content of the blood serum as 14 mgm and the pho phorus of the plasma 18 mgm Roent genograms showed other cystic lesions in the verte bræ scarula and mandible and the bones of the forearms \ high calcium diet for ten days was follo sed by a thorough explorators operation of the neck and the removal of enlarged parathyroid glands Three days after the operation improve ment in the blood calcium was noted and at the end of everal weeks the physical condition was improved and the bone pains had ceased \ine months later the general condition was still improving

CHESTER C GLY M D

Zampa G Anaphyla is as a Cause of Certa n Jont B ease (Lo stato a filatti nell g b d sic n a tr patie) Ch d g d m !

The most striking examples of anaphylactic joint manifestations are the arthralgias joint effusions and the allergic infilmations of the joints not in frequently seen in the so-called serum sickness accompanied by skin exanthems fever lov blood pressure and ecosmophila.

In experiments on rabbits the author found that joint inflammation could be produced by sens tiz ung the animals frat with serum and after a suitable membrain aper of imperting a small amount of the same serum into the joint cavits. This is an intra affectual at all ruis phenomenon. The severity of the distribution of serum countries are not proport on to the amount of serum on the sensiting and intra articular animation.

In another series of experime t /ampa found that inflammations of the joints could be brought abo t by sensitizing the animal with heter logous priten it in injecting some lightly taking

sub tance into the joint cavity by a technique similar to that used for user a phenomenon. Auer found that when rabbits were sensitized with horse serum and given intrapentioneal te injections after a suit able incubation period light rubbing of the skin of the ear with xijo latter about half an hour caused redema and irritation of the skin otherass these phenomena were not produced in control animals sense iffect could be produced with other irritants same iffect could be produced with other irritants and that therefore in a subject in a condition of anaphylaxis the action of different irritants may cause foodilized inflammation.

On the basis of these observations it seems probable that some of the joint of eases occurring in man are caused by an anaphylactic condition or protein shock. Zampa suggests that a change in protein metabolism or the repeated ingestion of heterologis proteins may result in the formation of touc goals proteins may result in the formation of touc goals proteins may result in the formation of touc proteins of the protein of

Pachne E and Bracco L. Changes in the length and Cal ber of Voluntar Muscle Fibers When the D stance Between Their Insertions Is Shortened or Lengthened (Sin mut ment dell lunghezz c del cabb d lie b e d mus h lotar consecuti all a cin ment ed li lin tan ment delle lor bse n) Cl d g d e et li lin tan ment delle lor bse n) Cl d g d e et li lin tan ment delle lor bse n) Cl d g d

Experiments were performed on rabbits to deter mine the effect on muscle fibers of relaving the muscles by shortening the di tance bety een their points of insertion or stretching them by lengthening that distance

In the first group of experiments the radial must cless were detached from their normal insertion at the carpus and their tree head fixed to the radius at the point to hich they retracted. The muscles continued to function as before. At first their they decreased in length and size from disuse but from the control of the state of the control of the they decreased in length and size from disuse but they decreased in length and size from disuse but their was one boss of eight which sho ed that the there was some boss of eight which sho ed that the increase in cal ber did not entirely compen ate for the decrease in length. There as no special decrease in the number of nucles in the period of relatic actually in our present the size of the control of the artuphy and to increase when the muscless increased artuphy and to increase when the muscless increased

In another group of e perments two ribs ever brought close together by higation immediately back of the inse tion of the serratus magnus muscle so that it is intercesal mixeds bet ean them were shortened and the mu cles between the lighted rib and the ribs next to them were lengthened. In these experiments there was no quest on of the resumption of function. The shortened mix cles between the lighted ribs remained shortened and their caliber decreased. The clongated fibers below the light et ribs remained elongated without any special change in the r call bet those two NG & ME & MD.

Mitchell G A G The Radiographic Appearances in Spondy lolisthesis B 1 J Radiol 1933 vi 513

In order to appreciate the variations in the roent genographic appearance of spondy lolisthesis a knowl edge of the causes of the condition is essential Al though the exciting cause is always some form of trauma there are usually more important predis posing causes Among the latter are unilateral or bilateral defects in the neural arch of the last lumbar vertebra fractures of the first sacral or fifth lumber articular processes absence or a vimmetry of the articular processes absence or a vinimetry of the first sacral or fifth lumbar articular processes in reased obliquity of the sacrum or its superior articular processes in creased constantly of the sacram of its superior affices and arrows pressure deformity from prolonged strain of the fifth lumbar vertebra, and various pathological processes of the lumbosacral joint

The most important predisposing factors are de And most important premsposing factors are of fects in the neural arch of the fifth lumbar vertebra neces in the neutral artist of the factor articular processes Detrocation appears and interior actional processor.

These occur in about 5 per cent of all spines. They Anese occur in acoust 3 per cent of an springs Anes are usually bilateral and congenital Similar defects have been found in the cervical and thoracic verte

er. The lumbosacral articular processes and the liga And authorosets a structural processes and the ments and the intervertebral disks in preventing the fifth lumbar vertebra from sliding forward on the superior surface of the first sacral vertebra which is normally tilted about 42 degrees from the horizontal When there are defects in the neural arch the antifurnition action of these processes is destroyed and joint stability depends on the action of learnents and muscles. Under such conditions spondylousthesis may be brought about by injury beary work preg nancy or a gain in weight. The affected vertebra name, or a gain in weight and anterior verterior is split in two the anterior part including the body pedicles and superior articular processes sliding for ward and the posterior part including the inferior waru and the protested part including the interior articular processes laminar and spinous processes

The diagnosis of spondylousthesis depends upon Ane distinuis of spondyrousinesis depends upon roentgenographic studies. These have demonstrated that the condition is more common than was former ly supposed and is as frequent in males as in females In cases in which the dorsosacral angle is exagger ated anteroposterior views may be misleading More rehable are lateral roentgenograms. If good lateral views are not obtainable the diagnosis may be made by certain pelvic measurements. Aormally the bitrochanteric length is slightly greater than the the intermediate length in other words a line drawn be tween the trochanters is longer than a line between the sliae crests. In spondviolisthesi, the reverse i true When care is taken to center the central ray or tube prope is these lines may be measured on or tuoe prope to these these may be measured on roentgenograms. A helpful diagnostic finding often presented by the anteroposteno roentgenogram in spondy lolisthesis is the 1 shaped shadon cast by the up-tilted laminæ and spinous process of the separated posterior port on of the fifth lumbar

Ullmann s fest cons sts in drawing a line perpen d cular to the superior surface of the first sacral

vertebra at its anterior edge This perpendicular i.e. always cuts through the body of the fifth leads vertebra in spondy lolisthesis but as it occasion! does so also when no displacement is present it must

Defects in the interarticular neural arch are vi bi in roentgenograms in about o per cent of cases of spondyloustess However it is seldom pos le to tell whether such defects are congenial or tru matic and many defects cannot be demonstrated

The po ition of the spinous process of the fifth lumbar ertebra is not constant in spondy lolisthes. It may be in the normal position or displaced fr ward or backward depending on the underlys g cause of the disorder When there is an interrupt a of the neural arch the fifth lumbar vertebra measured from the front of the bods to the tip of the sp nos process shows a variable degree of anteropo tenor clongation as compared with the fourth lumbar vertebra This elongation is a valuable diagnoste sign but it does not exist when the vertebra is deplaced nt to

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CHESTER C. GUY M.D. Tuberculous Costitis (Lindagne rad gr 2 neila coute tubercolare) Rad 1 m 1933 r The Roentgenograph c D ag os of

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Poli discusses the pathological anatomy and the roentgenographic characteristics of o cous and osteo-articular tuberculosis on the basis of 60 cases of covalina In 75 per cent of these cases the lesson was primarily osseous and in 23 per cent it was synovial In 50 per cent it involved the covil id portion in 30 per cent, the head of the femur and in 30 per cent the neck of the femur The auth r states that although the roentgenogram may be negative even after pain contracture and disability have developed there are cases of osseous tuberrulosis in which roentgen examination yields condus se data much earlier than any other type of examination Moreover it is only by roentgen examination that the type and extent of the les on may be de

He describes in detail the changes seen in the roentgenogram in cases of coxalgia Osscous atroph inflammatory changes changes in the joint si fees and changes in the appearance of the soft parts or in the shape and position of the bone. The char acteristic findings are shown by forty the eroent genograms taken at various stages of the lesionthe prodromal stage the in tial stage the stage of invasion of the joint the destructive deforming stage and the stage of repair On the basis of these shot any the stage of repair On the control on the find ngs the author emphasizes the important points.

Poli belie es that roentgenological study is of importance in the determinat on of the anatomo pathological character as well as the extent and evolution of the lesion and is therefore an indi pen sable aid in the d agnosis of lesions of the h p

ECCE 'E T LEDDY 'M D

## SURGERY OF THE BONES TOINTS MUSCLES LENDONS

Militner I J and Hu C H Osteochondritis of the Head of the Femur An Experimental Study 1rch S rg 933 xxv3 645

Three groups of exteriments on animals were carried out to determine whether a deficiency in the circulation of the head of the femur would result in changes simulating I exp Cal 6 Fe thes disea

In the first group alcohol was injected into the periosteum of the neck of the femur. This had no influence on the growth of the head or the neck

In the second gro p looh I was injected into the perosteum of the neck of the femur and the penosteum stripped Lack from the epinhs eal line to the base of the neck. This produced no gross evidence of disturbance of growth

In the third group of experiment the round heament was heated the periosteum stripped back from the neck and a l gature placed around the neck This procedure on sed a di turbance of growth of the head. The head appeared flattened and the c rt lamnous urfaces ere roughened and depressed

From the results of the e experiments the authors conclude that impairment of the circulation to the femoral head causes gross and microscoj it changes whi h are similar to those found in Legg Calve I erthes di ca e ELAY T BERKHEISER M D

The Roentgenological Findings in Ma turzi A Traumatic Les ms of the Foot (Lind gine a di l canell les nitr umatiche del ta o) Rad med 933 X 31

Masturzi presents the findings of a study of fractures of the foot from the clinical and roentgenologic cal po ats of view and reports with roentgenogram a number of typical and atypical ca s he has seen He empha izes the importance of roentgen ray examination following injuries to the foot and the preessity for a careful technique in this examination From T LED Y M D

#### FRACTURES AND DISLOCATIONS

M relle J The Influence of Vitamin D on the Consolidation of Experim rial Fractures (I f nc d l ta u e D s r l c s l d t n des fact e permental ) Re d ig d' 65

The effects of arradiate's ergosterol on the con solidation of fractures in experimental animal ha e been variable. The ariation seems to be due to e eral factors such as the dose of ergosterol the pecies age and diet of the an mai and the duration of the exper ment

The original obser ations of Plannenstiel (132) tave been wilel confirme! When an male are g ten excessi e d es of irra liated ergo terol they de elop diarrhera which leads to d ath w thin from ten to forty days and necrops di clo er extensive calcification chiefl of the arterial system the ") ocardium the kidneys and the stomach

The intox cation is favored b a det nich in cal cium Very different effects are prod red ly a det

poor in calcium. Toxic symptoms appear degenerative lesions and calcification are sligh absent and there is a marked osteoporou. The cium pho phorus ratio in the diet is impo deviations from the normal in either direction ! harmful When the quantity of calcium is opand the quantity of pho phorus is excessive the tude between the therapeutic and toric dose: comes reduced

Adult animals are more sensitive to exce amounts of Vitamin D than young animals

dog is an excention

Rarbitic animals tolerate larger doses than mai animals. Thymectomy decreases and spl tomy increases the toxicity of Litamin D

The dose of pradiated ergosterol which will toric symptoms 1 between 5 000 and 10 000

rachitic units The hypercalcamia following the administr of Litamin D is either exogenous or endoge depending upon the quantity of calcium in the If hen the calcium intake is low the calcium ba becomes negative and there is rarefaction of

skeleton Inder these conditions the inter excretion of calcium is reduced and the excreticalcium in the urine is increased. The chang the metabolism of phosphorus roughly pa those of the metabolism of calcium

The changes in the bones consist es enti l decalcification and hypercalcification One succeed the other Decalcification affects princi the ribs where it produces a picture some resembling that of experimentally produced ric There is resorntion in the metaphysis which lead to fracture. In this chan e the osteo lasts a minor rôle. Enchondral osteogene is is arri and there is an intense hyperamia of the ma Wh n these changes have been produced the e of Vitamin D has usually been combined w

diet low in calcium Young an male given moderately large dos ergo terol slow increased density of the bones can ation of the growth cartilage and direct i plasia of the cartilage into bone. The latter changes lead to arrest of growth

It appears that up to a certain dose irrad ergosterol produces increased density of the s ton Wh n this dose is exceeded rarefaction or The two p ocesses may e of e simultaneou iv in the bones and the teeth these tissues acqu an al colar appearance

In sew of tiese facts the author's experin nere planned to study the effects of varying a of irrad ated ergo terol on the repair of fract The experimental animals were rats and rat Fractures were produced in either the bones o hird foot or the fibula and the devel pment o callus was studied roentgenographi ally and tol greatly

In young rats doses of 1 000 ant rachitic ha tened the formation of the callus while dos from 20 000 to 4 000 un ts daily delayed it

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IVTERNATIONAL ABSTRACT OF SURGERY In adult rats a retarding action on callus forma an adult fats a retaining action on cause toring was noted whenever the dose of (Feotron)

reached from 7.500 to 10.000 units. When fener than 1 000 units were given callus formation was

Histological examination on the twenty first day Altroopical examination on the twenty use (as) after the fracture showed that the development of the oscous callus in the control rate was well the esseous callus in the courter cas was well advanced but less advanced than in the rats recent autaneeu out iess au) auceu itau in toe tais receiring small amounts of luamin D. The tais receiring and small amounts of vitamin D. After rate receiving massive doses of vitamin D. showed only fibrous massive doses of installar a source out more calluses. The differences between the control am

catuses the a neutrices between the control and those receiving large doses of Mamin D mais and those receiving takee ouses of vita were noticeable as late as the fifty fourth day ere noticeable as sate as the mis fourth day

Examination of the blood revealed that 1 000

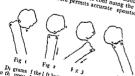
Examination of the neon terester that two the blood calcium as massite doses In a study of the favorable effect of Vitamin D

on the consolidation of the fractures it was found on the communition of the statistics it was sound that the optimal dose was between 50 and 1 000 that the optimal cose was between 50 and 1 coses action of the vitamin was operative be units I ac action of the vitation was operative or the fourteenth and twenty-eighth days. Dur then are constructed and twenty executions of the callus was chiefly cartilagrious ing time period the cating was chieff cartuagenous and it appeared that the action of the Vitamin D and it appeared that the action of the manner in action of the mass exerted chieff, on cartilage. This observation has exerced them on the testinger and societation is in agreement with the mechanism of cure in ex penmental nekets

The unfavorable effect of an excessive dose of Lifamin D on the callus appeared later in young animals than in adults. In both, the cause was the Seneralized demineralization of the skeleton Frankau C

ALBERT F DECROST M.D. nksu C A Nanipulati e Netnou for the Reduction of Fractures of the Surg cal Acck of A Manipulati e Method for the

The manipulative method described in this article As been used by the author in five cases of fracture of the surgical neck of the humerus Frankau be or the surgical nervox or the numerous realway beeves that in fractures of this type reduction effected under areasthesse most easily and simply b encine under autorities most rosus and sumprior erecting strong fraction in the line of the long are of the arm for several m nutes and then adducting of the and for several in mices and men audocring the fronk while continuing the tack This procedure permits accurate constitution of



Di grams 1 the 1 it humerus 1 3 the in 1 fractu n th uppe frament and 18 the line (fractu e n th n in uppe informant and an incident of individual of the flow of the effect fample fraction in the flow of the flo the effect of adduction benging P ) is 0 th 1 mo r g. of th 1 mb FE 3

the fragments. After the reduction the arm should the tragments the retuction the arm solving be immobilized for one week and at the arm solving the same of that the annihological tot one were son at the end of tall me active movements permitted gradually Complete restoration of function is generally obtained in trellan B

PAUL C COLON ! M.D. Ham it Fractures of the Lowe and I the tank in the first tank in t Fractures of the Lone End f the

The author describes four types of fracture of the the author measures was types or instance of a contraction of the homeons the supracondition fire ture fracture of the median epicondyle and cood k fracture of the lateral condule and decord in

The frequency of the supracondular fracture in children is explained by the late oss feation of the epiphysis which is responsible for a difference f epipu) sia women is responsible for a universe elasticity in the lower end of the humerus. Supra condilar fractures of the humerus are usually die Count par tractions of the numerous are usuam out to falls in which direct force plays a minor part and to tails in which direct force plays a minor pail and indirect force a major part. They occur for the most more frequently on the left side than on the next side is a rule the line of fracture as seen antenod runs almost transversely and often also signify up hard and as seen laterally runs signify upand from before backward The distal fragment because to

toni, before buckward the unital tragment displaced Posteriorly and medial medial theretone cases twenty e ght showed a d minution of from 3 to 5 degrees one an increase of 11 de grees and two no change in the valgus of tee stees and two ao change in the value a second cubitus varies. The chief cause of the fre showed cuotius varus the chief cause of the re-quent diminution of the valeus is the supnation queue (attenuation of the variety is the supposed applied during reduction and fixation. In 01.4 preappueu unnug requession and uxation an up-a secont of cases the flexor extensor mobility of the cent to cases the nexor-extensor mounts or the elbon Joint is diminished by an average of 12 5 per cent especially on extreme flection and extension La six of the cases se level extreme extension was

greater the distal fragment healing with a more or les marked diminution of the normal and anne vi anterost, because during the reduction and fast a to httle flexion was applied. After such a fractive the | ve end of the burnerus and its attention per too, we can or the numerus and its attitual per tion are aim st always greater than normal in filteen of the cases there was an elongation of from 1 to 0 mm and in fou cases a shorten got from 1 to 5 mm of the upper arm In eleven cases there is no change in nine cases the orange. there has no thange in nine cases the polaric ference of the upper arm remained unchanged in o cases it was increased from 5 to 7 mm and in the remaining trents cases it was der eased from i n ted in the oss fication centers after the fracture

teo in the use neation centers after the tractal pecally abundant callus formation was found alte unsatisfactory reduct n and late reduction The treatment of upracond lar f acture cons is of reduction under anxisthesia vith flex on of th on ictraction under anxiensia vin nex on or in elbom foint and pronation of the forearm "Special Control of the forearm special control of the forearm spec allent n mu t be paid to est fait n of the n m | algus and the norm i ante tor anal angl. The shoulder and wrest joints must be mmobilized and the fo camp nated. If the control roe tien gram

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shows the reduction to be unsuccessful wire extenon to the olecration or the provimal portion of the ulian in vertical suspension is indicated. Surgical treatment; indicated in incre-and blood vessel complications and so called completely neglected case. Early mechanotherapy i contra-indicated but active motion not including the fivition area.

should be begon as early as possible
In fractures of the median epocodyle and con
dule in which the di location is slight good results
are obtained by conservative treatment. If the
dislocation is marked and the fragment his pene
trated the joint surgery with special attention to
restoration of the lateral ligaments is indicated. It is
so fittle importance whether the fragment is fixed
or evertypated. If the fragment is large frastion i a
value but must be done accurately in cause is
availed as poor results is to be expected. Immobility
too in flexion and pronation are advisable at first
for the relief of pain and harmorthage. The flexion
signation possions should be a voided.

In fractures of the lateral condyle in which the dislocation is very slight conservair e therapy is indicated. If the d location is moderate and non operative reduction has failed to re tore the fragment to its place surgery is necessary. If the fragment can be easily restored to its place at operation and well fred in position osteosynthesis is indicated but if the reduction and fivation of the fragment prove to be difficult and not very exact extinct patients in single-state of the dislocation is marked from the start operation should be done immediately. Unre-extinguishment of the start operation is indicated if the lateral condition is undicated at the lateral condi

In dicond/lar fractues non operative treatment can be used only rarely and then only hen the dislocation is very slight. If osteosynthesis s necessary in addition to open reduction in ling should be given frict can iteration. Lovis New LT M D

Mutel Open R duction of Congenital Dislocation of th Ilip (Fed t ngls ted s l x t congét tles à l'n he Per à othèp 933 1 38 Matel states that in cases of congenital dislocation

of the 1 p closed reduct on is the method of choice in France but open reduction must be done in cases in whith reduction is impossible by the close! method and those in which the femoral lead will not remain in the actabulum after closed reduction. He discusses the early methods used by Hoffa

the discusses the early methods used by Hoffa Lorenz Broca and Kirmisson with their high mot to the and high incidence of unsatisfactory results. He has the discusses the following obstacles to reduction.

1 Skelet I obstacles such as abnormal ties of the acetabulum femoral neck and femoral head. Methods of correcting the e are described in detail.

2 Abnormalities of the ligaments adhesions and interposition of the capsule between the head of the femur and the acetabulum

3 Diff culties due to the four major groups of muscles around the hip—the pelvitrochinteric

adductor anterior and no terior groups

After taking up the various means of diagnosing the condition such as norntgenography and injection of the capsule Muttel describes the most frequently used routes of approach to the hip point for open reduction. These are divided into two groups (1) the internal and (2) the external or antero external. There is a considerable difference of opin on a tilt regard to the methods of obtaining extension and the necessity for extension. The chef method used are continuous traction traction with a plaster space and the use of the Thomas soluti

The technique of operation for young children which was described by Putti in 1931 in given in letail For older children Deutschlaender advises performing, the operation in to stage. The procedures of Le 1 ort. kidner Lane Groves and Bade are described and shown by illustrations. The author review a slow the indication for re ection of the femoral head and through the femoral shaft.

In conclusion le gives a stati tital resumé of the results obtained by different surgeons and compares the various techniques. Of the cases of voung children closed reduction can be accompli hed in about of per cent and gives satisfactor, results in 75 per cent lan about 8 per cent (tirreducible or refractory cases) open reduction is justifiable. In the cases of older children the results are not so satisfactory and the method must be cho en according to the requirements of the ac

Arce J and Introzzi A S Ischæmic Necrosis of the Proximal Fragment n I tracapsular Frac tures of the Neck of the Fernur (Nec 0 is na quéma d lí agmento pro m len I f cturas n tr cap ul re di cuello d lí nur) Se o a éd 1933 I 77

The authors report a case of a chamac necross of the provimal fragment of an intracaysular fracture of the neck of the femur in which bone gratting and as Whitman operation were performed and the patural as followed for three years after the accident the chinical history was as follo a pseudarthrous following a transcervical fracture bone grafting seven months after the accident deforming ar thropath, evident line months after the arcident most provided the seven months after the accident deforming arthropath, evident line months after the graft to the provided and the fracture and the fact of the epiths is considered and the fracture and the fact of the epiths is discovered and the fracture and the fact of the epiths is a supplied to the provided and the fracture and the fact of the epiths is a supplied to the provided and the fracture and the fact of the epiths is a supplied to the provided and the fracture and the fact of the epiths is a supplied to the provided and the fracture and the fact of the epiths is a supplied to the provided and the provided and the fracture and the fact of the epiths is a supplied to the provided and the provided

The authors conclude that a chamic necrosis is not a imple complication but a distinct disease which may be diagnosed both roent, eno raphically and histologically. It is characterized roentgeno graphically by early necross involva g all elements during which the epiphyseal shadow preserves its dens t This tage is followed by a stage of revascu farization evidenced by irregular leopard skin absorption the changes in the conformation and structure of the head being in proport on to the therevascular invasion. Even when the patient is first een a year or more after healing of the frac ture the diagnosis of pecroal may still be made from the presence of arregul r decalcateation and il ttening of the epiphysis. If the bone has reached a stage of equilibrium the diagnosi must be based entirely on collan e of the eniphysis When graft ing has been done the picture is the same except that there is more pronounced osteonene is in the vicinity of the disintegrated graft

After a transcervical or subcapital fractive to been reduced and immobilized it should be easily expected to recentge may examination for may re-proceed to recentge may examination for may represent the present set of the process set of the process and the process are not process.

Following a review of the blood suppl of the head of the femus tuder normal and patholo-and conditions the authors discuss the rose present brdiagnosis and the correlation of the rosetic craptor and histological pactures of stekme therms. Led review the cases of the condition which have been reported in the Literature.

The article contains roest enorams and photomicrographs and is supplemented with a bling raph.

1 E. Norse, M.D.

## SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Lericite R Fontaine R and Frieh P Ind ca tions and Results of Arteriography in Arteritis (Indications et ré ultat de la tén griphie dan les a tént.) Pes e iéd I r 933 tl 00

The authors believe that the present technique of Dos Santos for atteriorgraphy is safe. This was not true of the original methods in which some older abroad to crosslectian was the me fluin for necessary fines early interest cause so much on the appearance of the contract of the contr

In the technique used by Dos Santos today the contrast inclum nayeted as Thorum N. This substance is prepared as thorotrast. It was originally used for y nultitation of the their and spleen. Its injection causes no pain and its estrayastion no necro is It is without a deletenous effect on the artery even in the presence of arterius. Hence its injection for arternography may be done by simpeting for arternography and by done to suppersarious than that required for yenapuncture of

Twenty eight artenograms were obtained by the authors in twenty one cases of arternal disease. Amony the latter were as cases of senile artentis seven as e of diabetic gangrene four cases of Burgers disease three cases of vasionotor crues simulating Raynaud's disease and one case of arternal aneumon.

The information obtained was of great value in determining the amount and location of the obliters, the modern of the active probabilities to the condition of the active probabilities to the condition of the active collected area when the strength of the condition of the condit

Buegers dusease and atheromatous sclerous may be differentiated on the basis of the changes in the tessels proximal to the obstruction. In the former condition the proximal arteries are straight with regular contours but with a diminishing calibration of the contours and suncersaing and the contours and suncersaing and the contours and suncersaing and the contours and suncersaing the contours with the contours and suncersaing and contours with the contours and suncersaing and contours and con

obliteration Artenography demonstrates all o the

The authors believe that with present methods arteriography has a wide range of usefulness in arterial di ease

HERMIN E PERRE M D

Fick W The Effect of Arteriorenous Aneurisms on the Circulation (Kreisla fairkung artero enoser Aneurysmen) De Ische Zischr f Cl 933, ec l 1

Fick attempts to answer the following questions with regard to the circulatory changes resulting from arteriovenous aneurosms

r Why does compression of the aneurism cause a rise in blood pressure?

2 Why does this compression result in a fall in the pulse rate? Is it a vagus effect? Is it due to dilatation of the right ventricle? Is it caused by hypertonus of the heart muscle? Or is the increased peripheral resistance due to stimulation of the vaso constrict vis.

3. What causes the enlargement of the arteries adjacent to the aneurism and why do the wall of these arteries show thinning and degeneration?

In his effort to answer these questions Tick reports two cases and cites some experimental findings

The first ca e was that of a letter carrier that's two years old who was shot in the right thigh in 1916 Good healing of the primary wound occurred After the a rate patient resumed the occupation of letter carrier. Eight years later cramps began in the call of the injured leg. Twelve years after the injury a crural ulcer appeared. In 1930 examination revealed definite cardiac hypertrophy. The right leg was enlarged but there were no varies and no venous pull ewas palpsible. Gedema of the Joints was observed. A thrill was felt over the vessels above Pouparts in Jagament. Compression of the affected active the visual control of the control of the control of the promise laretry and the distal artery and vein were ligated. Following the operation the ulcer healed the heart decreased

in size and the general condition improved. The second cate was that of a waiter thirty one years of age who was injured in the thigh by a hand genade in 1910 and began having pain in the call of the leg seven years later. In 1930 examination disclosed cardiac enlargement Compression of the disclosed cardiac enlargement Compression of the fall in the pulsed at one in the blood pressure and a fall in the pulsed at one in the blood pressure and a fall in the pulsed at the pul

age of the abs ess was followed by secondary hæmor thage requiring ligation of the iliac artery Recovery

resulted with only fair function in the limb The experimental findings cited are summarized

as follows 1 Ligation of the arteries of a normal limb causes no marked rise in the blood pressure

2 Occlusion of the afferent artery to an arterio venous fistula causes a rise in the blood pressure

The blood pressure rises following ligation of the proximal vein

Ligation of the distal ves el causes no change in the blood pressure

The venous pressure in the jugular vein is not altered at the time of the blood pressure rise 6 The blood pressure rise is independent of the

filling of the vena cava 7 Cutting of the vagus nerve denervation of the

vessel and cutting of the spinal cord or splanchnic nerves has no influence on the changes in pulse and Dressare From these observations Fick concludes that the

changes noted are produced by the alteration of the pressure in the left heart as related to that of the general circulation FRANZ (Z) Thurston H F and Lamb E B Circular Suture

of Blood Vessels An Experimental Study trek S g 933 xxvu 786

The authors describe their experimental work and draw the following concl. ions

z Surgical trauma and retardation or distortion of the blood current are the chief factors contrib uting to the thrombosis which occurs when blood vessels are utured

2 Infection plays a minor role as a cause of blood clotting at the suture line Lareful asepsis is essential to prevent breaking down of the suture line

in obstructing thrombus when it occurs usually forms within a few hours after vascular re pair As a rule it is secondary to platelets ueposited

before the full flow of blood is relea ed 4 The increase in the blood platelets does not reach its maximum until a fe v days after the opera tion usually too late to influence thrombosis in the

seement of repair 5 Heparin solution is a satisfactors anticoagu

lant in the suture of blood vessels The authors describe a method of suturing with

minimal ligation of the collateral circulation JORN J MILLO TO MD

Worth I S and Duryee A. H. Human Cap l laries in Health and in Disease 1 d 1) Med 1933 lu 545

Following a review of our knowledge to date regarding the cap llaries n health the authors describe the changes occurring in these essels in the presence of high blood pressure low blood pressu e acute nephritis thron c nephritis senile arterioscle rosis toxemia of pregnancy polycythemia vera

scleroderma Raynaud's disease thromboanets obliterans erythromelalgia and arthritis The then discuss the development of the capilla es or relation to mental de elopment and permentual of the capillaines in nervous disorders

I FE VE DOC HT MD

#### BLOOD TRANSFESION

Wintrobe W W and Landsberg, J W The Blood of Normal Vien and Women Erythrogie Counts Hæmoglobin and Volume of Packet Red Cells of 229 Individuals B 1 J k 1 H > Hosp Balt 1033 lm

The purpose of this art cle 1 to supple additional data for the establishment of normal blood val es and to consider the relationship of age and geographic differences to these values. Determinations of the erythrocyte count hamoglob n and the vol ume of packed red cells are cons dered The authors report the findings of the examination of 2 9 in dividuals-86 male medical students for nurses and 42 miscellangous normal individuals. In addition t on they cite normal values from the I tera ure bringing the total to about 800 individuals. The results are recorded for each type of determ atto and each sex in the form of frequency curves to mean value standard deviation and coefficient of variation with their probable errors being gi en

The mean values from various parts of the Limited States and Europe are on the whole in close agree ment to significant differences were noted in the blood values in healthy adults at various ages. On the basis of an analys s of the rown figures and those of a number of other inve tigators the authors give the following normal blood values expressed in an ole numbers

Normal Regard

45-65

14 15

Ped c ll ount mill as per cubi

t tun te Hæmos Johin grams per 100 cm. Volume packed red cells cubic cent im ters pe 100 c cm 47

10 an # Red cell count milk as per cub c 4 8

42-54 c atumet Hem Ib grams per oo cm 1 1 m packed red el cubic centum ters per 100

In order to obtain a color rdes of 1 in 2 m individual it is necessars to choose the value of hæmoglobin that normally correspond to 3 000 000 According to the normal data this alse is 14 S in men and 14 3 in women The authors sig gest that in the calculation of the color index fo both men and women 14 3 gm of hæmoglob n be

employed as the equivalent of 100 per cent The desirability of expressing the harroglobin in grams per 100 c cm rather than n per cent is con sidered The authors say There is more reaso to express other chemical constituents of the blood in proportion to an arlatrary normal than there is in expres ing hamoglobin in this way for at least there tre shight of ho differences between the seve in th se other chemical con tituents

HO MENT MET MED

Del Joppo R Vital Radiations in the Blood in Relation to Age (L rad az ni nel sangue i rap 1 1 leth) Pol 1 Rome 1933 1 sez pr t 1241

The author studied the behavior of the vital ra lia tions of the blood described by Gurwitsch in the case of twenty normal in lividual He found the maximum radiation betseen the twentieth and PETER A ROSE M D thirtieth coars of age

freh C L Hamophilia Med CI Q33 Y 2 35

Birch reviews fits five cases of hæmorphilia stude I during the last three years and reports in detail three cases show ng the frequency of hæmor rhages occurring spont neously and a the result of e ternal injury such as contusions abrasions minor operations and tooth extractions

In some of the cases reviewed the hamophil a was associated with another pathological condition. I so patients were suffering from pituitary dysfunct on manifested by Froehlich's syndrome Under treat ment with extract of the anterior lobe of the pitui tary gland they showed ome improvement but the hamorrhages were just as frequent and se ere as

Hamorrhage is the outstanding clinical finding in hemophilia It may follow a slight injury or may occur spontaneously It may begin at the time of an injury or from seven to ten days after the accident In many min r superficial cuts the best results are obtai ed by the u e of catgut sutures elevation of the part absolute rest an I care not to disturb the part of the dres ing which a theres to the wound l'annic aci I dusting powder is also used. The hæm a rhages most difficult to control are those from the gums ni tongue Hamorrhages fron the loss of teeth may be treated by applying a mold of soft wo d cork or gutta percha which fits o er the gum and fastens tightly to the teeth on either s de of the bleed ng point I his moli m y be I ned with a thin laver of cotton's aked in evarian extract

pontan us harn rrhages may occur into the gastro inte t al tract cau ing the comiting of large quantities of bloo ! Othe common sites of hemor rhage are the kiliney spinal cavity and brain but the mo t ch acteristic site is the joints. The more se ere the ham I hilia the earl er the joint symp toms develop. The j into most commonly involed are the knees elbows hips ankles and shoulders The joint is hell in a position of flexion as in this po ition the joint capsule has the g eatest capacity plinting is important to prevent contra tures. The treatment should 1 clu le the appl cation of heat an ! cold Cold contracts the blood vessels but prolongs the clotting time. It should be pplied for from

twents four to forth eight hours and foll well by the application of heat

in the flood sicture the only sositive finding ar an increa a in the re istance of the blood platelets which prolongs the clotting time and rapid se limen tation of the blood cells The latter disappears if the resistance of the hæmor hiliac platelets is ov r come by mechanical means

In the general treatment intramuscular injections of blood and the transfusion of whole bloo I are of undoubted value. However, the most nearly specific treatment is the administration of doses of from 40 to 120 gr of a hole ovary. This treatment is based on the as umption that as the condition i tran mitted by the female only to male offspring it i related in some way to the structures which differen trate the male from the female, namely, the ovarie

( DA ILL DELPRAT M.D. Luctreler II Stud es of the Effect of Iso Acciu that on on the Red Bl od Cells and on the Effect of Universal Donors in Blood Transfusion

(Utrs ch gen ubr d Finn king der 1 auf d r ten 1 lutk erperchen gglutin ti uebe d I nwi ku g ! Allpem n p nd der Bluttra fu i n) De t le lts h f Ch n h 011

CCT! 44

The favorable influence of transfusion in infectious diseases is not determine I entirely by the specific rotecti e substances carried over in the transfusion as the results are equally good whether healthy donors convalescents or donors previously treated with vaccine are used. It is largely a matter of stimu lation therapy which is the more effective the earl or it is used (Buerkle de la Camp)

Reactions after bloo I transfus on particularly after correct preparation have been attributed to the subgroups. Howe er I homson states correctly that the so called Subgroups M N and I are of no importance in the selection of donor because under normal conditions, human serum does not contain an agglutinin for these receptors The factor responsible is probably irritation by a foreign protein. In this connection the author cites Ochlecker's differentia tion of accidents occurring during transfusion which are to be attributed to hamolys's and those which occur later and have no relation to hemol is

I uetzeler undertook studies to determine bether the agglutinating serum changes the red blood cor puscles He found that the resistance of the red cell was unchanged by 1 o agglut nation therefore hem olysis vas not favored life intake and relea e of oxigen by the red blood cell was the same hether the cell vere agglutinated or not. On the other hand changes i ere note i in the sed mentati n rate of universal lonors and group similar donors. In the f rmer the peed of sed mentation as acceler ate 1 to other reaction such as chill lever o

urtica a n s related to t It is not doubted hethe the changes in the rate of se I mentation are elated to ch nges in the red cells Apparently the re rel ted m re clo elv to changes n th pla ma

Moreover as they are related to the coagulation time the conclusion may be drawn that transfusion from a universal douor is less satisfactory especially for hemorrhage or at operation in which hemorrhage is to be checked as in cases of intering Faxal (2)

#### LYMPH GLANDS AND LYMPHATIC VESSELS

Baez M M Some Considerations on the V's ceral Vian festations of Hodgkin's B sease (Vi gu con ideraciones cera d las maniestaciones is erales de la enf rmedad de Hodgkin) G c w d

d M x o 1933 Isi 357 Following a review of the history of Hodglin's di ease since the first description of the condition by Hodglin in 1812 Baez describes the symptoms with pecial emphasis on the visceral manifestations and discusses the diagnosis etiology pathology and treatment. He states that the disease is frequent in Mexico The typical cases in which adenopaths predominates almost always come to the surgeon thile those in which the enlargement of the external glands is not obvious and is overshadowed by vis ceral or more frequently general symptoms are seen by the internist. The latter are difficult to d agnose A relatively common cause of failure of diagnosi is the co-en tence of other diseases notably tuber culosis The general symptom may simulate those of a number of subscute or chrome febrile conditions such as tuberculosi Malta fever malaria and sep is

sep is

The author reports three cases which were diag
nosed only in the terminal stage because the adenopathy was not marked and attention was focused

erdusively on the prominent viscord in many the total results of the contraining is improrise very viscordial distribution fever and emain on his third case hermopis is war followed by our his pectoration fever and dis para a das t empetoration fever and dispara a das t empetoration fever and dispara is distributed bandli in the putture presumedhors; was in set. The article has an extensive b bloger in

U E MOLL MD

Fraser J and Meli E C. A Study of the Lomphogranulomata E. b 16 M J., 1933 L. 4.

The authors report a rase of recommon of low has

The authors report a case of recurrence of him togranulomata which had been controlled b ira ation theran

ation therap

Lymphogranuloma was first described in 1831 blodglus. The authors review the theories as tous relation to tuberculous diphtheroid and strept-occurs infections. They are inclined toward toward to the control of the process of the side above that it is a form of tumor as only, he side above not they for any the processor of their proposers in the life, to only the processor of their proposers in the life, to only the processor of their proposers of the life, the processor of their proposers which later shows cells of less prefet development with motors forms and thimstel the preture of malignance, with in 90 ement of older plands and ussues. The treatment depend thous theory regarding the cause

theory regarding the cause.

The authors review the methods of treatment used. They believe that the most successful treatment is urradiation. A ray irradiation is supen 1 to radium irradiation giving effects which are o conformatic.

M. Her irr Bleier, M.D.

### SURGICAL TECHNIQUE

#### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Grafts of Fixed Skin An Experi mental Contribution to the Question of Re hab litation (In est di cute f sata Contril to l d chr 1013 th 003

The author refers in detail to Nageotte's work According to Nageotte who studied especially con nective ti sue there are two parts to every tissuean interstitial part and a cellular part. The inter stitial part not being living substance maintains its plastic characteristics in transplants whereas the included cells die rapidly when they are removed from their natural environment. This conservation of the connective tissue framework is the process essential to the uccess of transplants. To prevent d sintegration of the supporting framework \age otte resorted to immediate killing of the ti sue by means of fixation From the results of his expenments he concluded that the transplantation of such fixed to sue is soon followed by destruction and removal of the included cells by the mobile cells of the hving transplant bed an i that this i followed by fill og of the empty connects e tissue structure with hving abroblasts a proce s constituting a true revivification of the ti sue A major advantage of the use of the fixed implant or transplant is the po sibility of employing heterogenous tissue

come investigators ha e found the described pro ce fure successful I oth experimentally and clinically whereas others claim that instead of being rehabili tated the implants are replaced by new bying tissue To determine which of the e two opposing groups i correct the author carried out experiments on rabbits in which he implanted formal it fixed autogenous homogenous and heterogenous skin and studied the results gro sly and histologically after periods rang

ing from four to fity days

liter from twelve to twenty four hours gross examination di closed by peræmia in the bed of the implant I robably the manifestation of an inflamma tory reaction. This persisted for three or four days It the end of that time retraction began and the utrounding tissues seemed to return to normal Mite from t fee n to twenty days a marginal separa tion of the implant began and in from twenty four to fifts days the eparation became complete leaving a sub-stratum which was red smooth and well

ad anced in the process of epidermization. Complete restituts n of the skin to normal required about one hundred days On microscopi examination Imperati was unable

to demonstrate a true rehabilitation in the sense of f lling of the empty dead framework with living cell

All of the findings pointed rather to a process of replacement of the tran plant by regenerative changes in the ho t

In conclusion he says that in spite of the failure of true rehabilitation the implants are of value as they form a mechanical protective covering stimu late regeneration and impede the formation of hy pertrophic and sclerosing scar tissue

A Loci Rost M D

Whipple A O The Use of Silk in the Repair of Clean Wounds A n Su g 1933 xc iu 66

The author states that healing by primary union may be defined as the restitution of the inci ed tissues to their normal condition with minimal scar formation and with no discharge from the line of incision or from stitch holes of an exudate which either clinically or bacteriologically indicates infec-

Controllable factors of importance in primary wound healing are proper steril zation of supplies solutions gown gloves and instruments the de velopment of an aseptic sense in the surgical team careful skin preparation careful masking of the nose and mouth of every one in the operating room and limitation to the minimum of injury to the tissues and of the amount of foreign body introduced into the wound In discussing the last factor Whipple compares the use of salk and catgut choically and experimentally. In using silk the surgeon must avoid tight sutures mass ligatures dissection with blunt scissors careless hamostasis the use of any but the finest grades of silk combinations of silk and catrut the use of silk in any but a sterile field and continu ous sutures Since adopting a corrected technique in the use of silk the author has noted a marked improvement in the healing of his clean wounds

study of wounds in animals which were sutured with silk and catgut showed that a greater tissie reaction occurred when catgut was employed. The results in these experiments confirmed the findings of Howes Harvey and Sooy with regard to nound healing and the ten il strength of wounds

JOHN H GARLON & M D

Pellice a G The Relation of Postoperative Bron chopulmonary Complication to Anasthesia bro c polm n ri post-op ratorie estesi) An 11 d ch 1933 (Compl c n rappo t all

The author reviews the chief types of anasthe ia -ether chloroform nitrous oxide avertin spinal and local- and sets forth the advantages and di advantages of each. He then reviews the lung compl cations following 2,311 operations performed at the hospital of S Gio anni di Dio in Florence in the Moreover as their are related to the ensignation time the condusion may be drawn that transfulion from a universal donor is less sail, factory especially for hemorrhage of at operation in which hemorrhage is to be checked as in acres of interior. Franz (2)

#### LYNPH GLANDS AND LYMPHATIC VESSELS

Baez M M Some Cons derations on the Visceral Manifestations of Hodgkin & Disease (Algunas consideration es activa de las manifestation s preprieta de la informedad de Hodgkin! Got med

d Mex c 1933 lm 3

Following a review of the history of Hodglin's disease since the first de contion of the condition b Hodelin in 1922 Barz describes the vmb oms with special empha is on the visceral manife, ations and discusses the diagnosis etiology pathology and treatment. He states that the disease is frequent in Mexi o The typical cases in which adenopathy predominates almo t always come to the urgeon while those in which the enlargement of the external glands is not obvious and is overshadowed by visceral or more frequently gen ral symp oms are seen by the intern ... The latter are difficult to diagnose. A relatively common cause of failure of diagnosis is the co-exiten e of other diseases notably tober enlosis. The general symptoms may similate those of a number of ubscute or chronic febrile condition s ch'as tuberculos s Malta fe er malsna and sens s

Erns a thor reports three cases which were diag noted only in the terminal stage because the ade norathy was not marked and attention was focused.

erclassed on the prominent a real management and introduce the orbital age spon one were to trollable destroya free and excession from the death case hampenys, was followed by the performance free and devotes, dast to be the second of the s

MELOLERI

Fraser J., and M Lie E. C. A Study of the Limphogramulomata E. 18 L. J. 12 L. L. The authors report a case of recurrence of lem-

The authors report a case of recurrence o lumb granulomana which had been controlled it manation therap

Lymphowan John was new described 1. I Hodgean. The such is re-well the breast it relation to tube calons, diphthrop, and cere cocess infections. There are incl. of the vest that it is a form of tunor as call his with theory do they find it possible to oer him a sunit with the proof and disturtances in the Let. It and economy of the lymphomenabeed, defailed. They believe that the condition as a first a lead; the proof which is consistent with mitotic forms and ultima by a perture of malignation with two tenses of a periodical disturbance of the proof of the conditions of the proof of the conditions and the conditions are dependent on the periodic and taskets. The treatment depends with theory regarding the case.

The authors review the methods of trainment and Their lehers that the most discussed but ment a straightform, is the mediation as well radium irradiation, is the effects which are discussed in the method of the method of the method.

## SURGICAL TECHNIQUE

## OPERATIVE SURGERY AND TECHNIQUE POSTOPFRATIVE TREATMENT

Imperati 1 (rafts of Hised Skin An Experi m ntal (antithution to the Question of Retabilitation (in ti-di-cut f-at Contributo prime taleall que ti-ne fella rial ita ne) 1/ (at de 1931 x 903)

The author refers in detail to Nageotte's work According to Naggotte who studied especially con rective tissue there are two parts to every tissuean interstitual jurt and a cellular part. The inter stitual part not being living substance maintains its tlast c characteristics in transplant whereas the included cells he rapilly when they are removed from their natural environment. This conservation of the oppositive tissue framework is the process essential to the success of tran plants. To prevent di inte rati n f the upporting framework Nage otte t setted to immediate killing of the ti-ue by means of franch I rom the results of his experi ments be conclude I that the transplantation of such t oil to sue is soon i llowed by destruction and ten oval of the include I cells by the molile rells of the living tran plant bed and that this is foll wed by filing of the emity connects e to sue structure with living f | rol | is a process constituting a true text if catt n of the tissue 1 major ad antage of the use I the ixed implant or tran plant is the shility femply ng beterosen us ti s e

mean e treat r ha e found the d embel procellar sacce ful bod repeninent II and chincill whereas the six has maken instead of being rich bid tafer the implant are reglected new in mgs suctivation of the major and the major in the six forces that we will off the even you mge groups as forces that we will off the even you mge groups as forces that we will off the even you mge groups as the mean and the mg and the six of the mg and bid in which is not intended in that is a data ferrous the produce of the mg and the six of the six of the first the six of the six of the six of the six of mg for six of the six of mg for six of the s All of the findings pointed rather to a proce 5 of replacement of the tran plant by regenerative changes in the ho t

In conclu in he ays that in pite of the failure of true rehabilitation the implants are of value as they form a mechanical protective covering stimulate regeneration and impede the formation of hypertrophic and cleroning sear it sue

A Louis Rost M.D.

## Whipple A O Tie Use of Silk in the Repair of Clean Wounds A n Sug 1953 sc G 2

The author states that healing by primary union tas be defined as the restitution of the incred tas uses to their normal condition with minimal sear f imation and with no discharge from the line of incri on or from stitch holes of an exudate which either clinically or bacteriologically indi ates infection.

Controllable factors of importance in primary nound healing are proper sterilization of supplie solutions gowns gloves and in truments the deelooment of an a eptic sense in the urgical team careful kin preparation careful masking of the nose and mouth of every one in the operating room an l limitation to the minimum of injury to the tis ues an l of the amount of foreign body introduce l into the wound. In discussing the last factor Whipile compares the use of silk and catgut linically an i experimentally. In using a lk the surger n mu t avo d tight sutures mas leatures dissection with blunt scissors careless hamo to is the use of any but the t nest grades of silk combinations of silk and cargut the u e of silk in any but a sterile field and contin ; ous sutures. Since adopting a corrected technique in the use of alk the author has noted a marked improvement in the healing of his clean wound

Visual. I mounds in animals which were sature I with lik and catgut showed that a greater issue react in occurred when catgut was employed. The results in these experiments confirmed the findings of Hower Harrey and Soo with regard to no nd he ling and the ten the strength of wounds.

Joi VII G REOK MD

P iliccia ( The Relation of Postoperative Bron clopulmonary Compilications to Anaesthesia (Composite by Composite post-corposite by Composite by Com

The a there was the chell types of anisathe a -either office form in tious of ite avertime spiral and local art less forth the a tentaces and dead anisages feach. He then release the lung complete is flow in a result operations performed at the high 15 C. a. not 10 on 10 topeces in the

period from April 1929 to April 1932 Eight hun dred and thirty two of the operations were lapa

Of the total number of operations 1 262 sere per On the total ituitiber of operations 1 202 vere per formed under general anasthesia and 1 062 under local anasthesia induced with tutocam Broncho pulmonar complications had an incidence of 5.49 per cent and a mortality of 0.77 per cent. In the per tent and a mortanty of 0.77 per tent. In the cases in which general anasthesia was used the tases in which general anassenessa was used the morbidity was 3 80 per cent and the mortality 0.39 per cent whereas in those in which the operation was performed under local anasthesia the morbidity

was 7.53 per cent and the mortality 1.23 per cent 25 7 33 per cent and the mortality 1 43 per cent Pelliceta beheves that these figures are true in A critical peneves that these agains are vine in dices of the relative tendency of general and local anasthesia to cause bronchopulmonary complica tions as local anaesthesia was used in the more serious cases and those in which pathological changes were already present in the respiratory tract. He is of the opinion that the anasthesia was tarely the only or even the ch ef cause of the lung complications

AUDREY GOSS MORGAY M D

## ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

Mészáros A by the Electrical Current (Path logic der 1 The Pathology of Injuries Caused by the Electrical Current train togic det i letting a durch den el kin hen St m) Orion

The constantly growing interest in injuries caused b) the electric current i Justified not only by prac tical cons derations but all o by the fact that the biological and physiological problems connected with these injuries force research into entirely new fields The explanation of the mechanism of pro duction of the injuries must be based on the mor phological variations which are found as the direct result of the action of the current on the living o dead body. In the cadaver the immediate cause of death can frequently be determined. However in many cases the morphological lesion does not corre spond completely with the pathological findings These are the cases which force research into the realm of funct onalism

It is important to determine the changes which arise as a specific effect of the electric current on the skin the vascular and nervous systems the bones and the sensory organs which are not comparable to the changes produced in the organism by other

Research on the biological action of electricity moves in two directions (1) studies of the electrical phenomena taking place within the organism itself and (2) studies of the action of the electrical energy

In the realm of electropathology we are dealing with injuries produced by a great increase of a physiological stimulus However phenomena show ing any comparability or regularity in a qualitative quantitative or localizing sense are lacking In no realm of pathology does the independent individu

alism of the human subject come into the tr ground so definitely as in the field of elettro-

The results of theoretical and experimental research to date may be summarized by the state research to have may be summarized by the state ment that the organism itself constitutes an dec ment that the organism usen consumites an ene trical system which (1) creates electricity (2) notes electricity (3) conducts electricity well and (4) given

With regard to the degree to which external dec tricity affects the independent electrical system of the organism experiments have shown only that from the standpoint of conduction the organism is to be regarded as a heterogeneous electrical solution With respect to the pathophys ological action of the current it has been impossible to determine a fired regulanty The various kinds of animal life respond differently to the action of electrical currents. Most sensitive are fsh white mice and horses. Les sensitive are flies crabs birds the pig the dog and cattle Man shows great tolerance to the current In man an important role is played by the psychomotor forces which can work against the effect of the current up to a certain degree by proper regulation of respiration blood pressure and muscular in nervation

Experience shows that by properly preparing the attention contact with the current may take place without danger In accidents however contact with the current is usually unexpected Obvious therefore attention has only a very relative pro-

The action of the current is determined by the

tension and intensity of the current and the d ra tion of its action but the variations in the effects resulting from variations in these factors are not characteristic In fatal accidents the tenson in tensity and time of action of the current van c n Lader the conditions of emergency practice the

s gas of the action of an electrical current such as excitability and paralytic phenomena loss of conse ousness changes in the heart action hamorrhages and functional disturbances of the intest ses h and kidneys occur in variable intensity and o binations The fate of the injured person is demined less by the physical factors than by his o dition and constitutional make up In the cases persons with a labile nervous system it is possit for the psychic shock occurring at the moment the action of the current to bring about immediat death without the p oduction of a demonstrable morphological les on In other cases it is possible under favorable c cumstances for the functional disturbances caused by the shock to disappear completely

The explanat n of the gross tissue changes is difficult in a large percentage of the fatal accident cases seen in eme gence practice autopse yields no explan t on of the mechani m of action of the cur rent. The h st logical changes appearing in the muscle tissue are characterist c No changes can be seen

on macro copic examination but in microscopic sections the muscle fibers show screw like spirals close together which are especially distinct when the Heidenhein stain is used. Their nature and significance have not yet been determined changes in the bone system are quite remarkable The bones show tears similar to those found in the fiber of trees struck by lightning. The distribution of the tears and fissures may be quite independent of the point of entrance of the current Their form and extent show no relationship to the local static or muscle mechan sm Among the frequent sequel e of the action of electricity are fragmentation of the cardiac muscle gross fi sures in the liver which often may be seen macroscopically layer like divi sions in the stomach, and dissociation and torsion of the epithelium of the renal tubules. The acute degeneration of the nerve ganglia resulting from the current action can be demonstrated also expenmentally. This explains the frequent paraly es and trophic disturbances ob erved in emergency practice. The changes produced by the electric current in the skin are characteristic. At the point of entrance and exit of the current there develop hard raised pale les ons with a retracted center and a sharp margin. The epithelium covering these areas remains unchanged. The eye is e pecially sensitive to electricity. While objective and subjective symp. toms are often entirely absent immediately after the injury disturbances of vi on may appear weeks and months later as the result of a beginning len t cular opacity or cataract formation

The described pathological changes g ve important indications with regard to treatment A large proport on of the cases with absolute respiratory and cardiac paralysis may still be reversible troperly carried out artifical re piration lumbar puncture and the administration of troper nedi

ation may lead to complete reco ery 'Attempts at resuscitation mist be continued for hours. With regard to necro is resulting from the action of an electrical current the utmost conservation is in high ated.

## Dimtza A and Gut ci er H The Bacteriology of Accid ntal Wounds (Z r B kte 10] ge ak den tell W d n) i J f bl Cl 933 cl 1

The authors refer to the earlier bacteriological states of accidental wound made by Rygenbach Brunner Ritter Kraft Gerlach Dintza and Cutscher and Vass and report their own findings in 424 cases in which ound material e cised according to Fe clincl's method, was examined.

Much to (217 per cent) of the nounds studied by the authors ere free from bacteria. In spite of ound exis on and d sinfect on with 5 per cent inheture of sodine primary innon occurred in only 260 of the primarily sutured wounts. In 332 con animated ounds the folf ling bateria were found staphylococc alone in 168 cases and mixed with streptococci and colon bactell in 30 streptoce with streptococci and colon bactell in 30 streptoce.

alone in 31 cases and mixed 1 ith staphylococci and colon bacilli in 62 colon bacilli alone in 10 cases and mixed with staphylococci and streptococci in 21 and Fraenkel Welch bacilli in 57 cases Wound in fected with staphylococci showed a greater tendency to unite primarily than others but the type of sound was all o of importance in the occurrence of primary union Primary union occurred in o per cent of the cases of pure staphy lococcic infection and in so per cent of those of pure colon bacillus con tamination. It was noted particularly that colon bacteria produced suppuration. The high incidence of Fraenkel Welch infection indicates that the pos sibility of gas gangrene must always be reckoned with particularly in cases of injury due to riilroad accidents all of a high showed infection of this type It is interesting however that gas gangrene did not develop in all case in which Fraenkel Welch bacilli were found. Of the 57 cases of infection with such bacteria chinical symptoms occurred in only 15 per cent

A definite result from the prophalactic use of gas bacillus serum coul in ot be demonstrated. During the last nine months—the study covered a period of our veirs—the prophalactic serum was not used unless climal as mptoms developed. Ho vever such would must be kept under careful furneal and some country of the prophalactic serum was not used to be proposed to the prophalactic serum was not used to be undertaken to the country of the prophalactic serum in the prophalactic services and the prophalactic services are the prophalactic services and the prophalactic services are the prophalactic services and the prophalactic services are services as the proph

The authors di cuss the various 13 pes of injunes and refer to their earlier experience with bite 3 ound which tend to vard sepsi and should never be sutured primarily. Streptococcus sepsi occurred in 3 of 35 cases of bite 3 ound. Fr. vz. (2)

## Saner F D Some Considerations n the Treat ment of Acute Suppuration L cet 033

In recent years rest in its widest sense has been accepted as the essential basis of the treatment of acute inflammatory and suppurstive conditions. In cases of open infected fractures the ound can be left to care for itself to a great extent after the establishment of drainage if the limb is efficiently immobilized.

kest and warmth should be employed when the signs of inflamm ton first become maniest or after an my thon ever alght which is a potential site of infection. The author believes that too much faith is placed in the pplication of die to minor aund. He recommend instead of ind me thorough cleansing and set for forty eight hours in norder to bloeate pur from superficial alsects.

an incision should be made to append a whole length of the abscess can't. As specific with a specific can't be abscessed to the abscessed to the cisions should not be made until put has definitely formed. In certain is an acute inflammation process sprea ling under rover of dense t saw. On no account should an area of ir flammation on the face in the nose or on the lip ho e er small be incited in a presupporative stage.

Bollum presents a study of the s e and shape of the Bound presents a study of the and snape of the facts of 300 health. Then about them to care old Of the various method for determining the size of Of the vanous metood for determining the sace of the heart in the living he prefers the rad ocard of the sace of the rad ocard of the sace of the rad ocard oca the neart in the using we precess the ray ocara of plastic method described by Palmieri in 1019. He

passic metion described of adment in very discusses the value of orthodiagraph), and the pos sible sources of error in the and other method The some sources of extreme time and other method the Statistical results of his study are evaluated by the statistical method of Viola. The relationship between the size of the heart in various project ons and the size of the bodi 1 shown by curres and tables

# EU EVE T LEBON V.D. Phillips G W The Effect of Rad ation on Blood

In a brief review of the literature the author point out that there is little agreement regarding the out that mere is more agreement regarding the changes that occur in the blood cells following tradition. The most frequent effect described is a trad atton. A sic most inequality energy observed to a leuropenia associated with a relative and absolute tercoperia associated with a relative and ausolite imphoperia but by some reflection tosis mono Co tosis or angenia has been reported

ctions or anarma mas ocen reported
In the study reported by hall perithrocite
leucorite and differential counts tere made on alternate days in the cases of nine patients with antennate days in one tases of none paramus area malagrant disease who were undergoing V ray or malgrant disease who were undergong \ ray or here not circulate to management the results over period of from tients to thirt days are presented reason of none events, to units days are presented fraphically. The total dosage given in each cas was

Wat m 86 000 ( km / 42 000 ( km / 2 3 3 (5 nd 2 \$ 45 j 200 3 3 (S nd I) 3 4 (S) 45 000 (gm) ٥ 48 000 (2 gm) 35 000 (2 gm) s Q to LSD 95 000 (gm) by mea I hi do I was a sea pomp 400

In no case, a anxinia produced by thes d e The visite blood cell were not materially alte ed in any 12 and leucopen a did n 1 oc ur ln in any a and remove the a mo we can tended to be loser but the tridiation had no fie ton th

The results sug est that n ch racten u h ge are produced in the blood picture b large loses of are pronuced in the blood count per loses of should not I mit the amount I irradiat on ons d red

Gould E P uld E. P. Irrad atton Inerap in the Irrad atton Inerap in the Irrad atton Inerap in the Irrad atton Irrad atton Inerap in the Irrad atton. In the thirty odd years since radium a tay

in the thirty odd vears since radium a 1 iv rats a sere first used in the treatment of rate name, the value of irradium has been grid in The matted by mning udder recognition. The method his over to star although its true place in the treatment of to star although its true prace in the treatment of ancer is still to be determined. This type of treat ment came upon the scene at a time when stand d and pajor surgical procedures are being site. the radium therapist being therefore denied the one tauming therapise owing meritore occured by opportunity to treat the early case. The technology of radium, therapy changed and drieloged and drieloged as rapidly that no sooner were the results of a particular method followed up sufficiently than they lost their s guincance because the techn que had become out of date. As to the cure of cancer it is probable as e to say that no patient is cured until he is dead of

to set that the Patient is caree unto use of occasions other dease. The word cure should be some outer a case line nora cure snown the documents of Palitalite treatment or lasting freedom from the disease are me suitable phrases

The author discusses the following 4 quest ons with regard to radiotheraps

Mat group of les ons vield best to irrad about tion and surgery

N hat groups yield to a comb nat on of 1 rada 3 What groups are merely palliated by radu t on methods

In what groups is irradiat on of no val Since irradiation therapy t still n the st ge of des elopment any answers to these quest as (2) cerropinent any unsuers to these quest in take has e only a temporary value. The ans ers miss be found in a critical stud of the data of one t genologists and radium therapists. Crn cal stid

genoments a companison of the t results with surecal esults of a strictly comparable kind. Along these ines the auth r reports the results of follo up t D M estigations at the Middlesex Hospital London in all cases of mal grant disease h t treated th rad um o the \frac{1}{2} rats m order that the m is be compa ed with the statistics of cases treated with radum which are collected lear his care treats in

rep esent the surgical skill of all members of the staff and include the good the poo and the 19 Of 1 roo cases of malign at disease only 45 ere

on idered suitable for r dical orgical treatment of these all but 4 have been traced Of 151 pa lents t cated su gicall for cancer of the breat this de did from the operation for per cent were able and free fr m the discrete at the ind filter

are early free if m the observe at the his fam.

th I sease I the end of fire all e and free from

the large of the end of fire all e and free from the issues time end of the ears in 4 distinction for the flands 3 to 10 ce time end of the ears and of the end grants 3 to perce 11 create from the war at the end of there year and 2 (5 per cent) ere for the disease at the end of ise case. Of of the gland of ement 11 (30 he cent) are free from the diese tithe ni of three ears a d

33 (22 per cent) were free from the disea e at the end of five years.

Of 13 patients with carcinoma of the tongue 5 died of the operation 11 were free from the disease at the end of three years and 9 at the end of five year.

Of 14 patients with careinoma of the floor of the mouth an i mucosa of the lower jaw 3 d e i of the peration an 1 5 were free from the disease at the end of from three years 1 i f e ) care

end of from three years () t e )ears

Of to patients the carcinoma of the hip were
free from the disease at the end of three years and

5 at the end of the years

The author discusses also cales of carcinoma of the parotid gland stomach colon rectum and skin

In c neluss n Could states that in the fell in which radium therapy yiells definite resultsles ons of the skin mouth and brea t surgers also gives encouraging results and in the fields in which rad um thera; a complishes little less us of the stomach colon and rectum the results of surgery are disappointing Radium and the \ray are nothing more than local reme lies The ad antages they offer are free from from rikt life and avoid ance of invalidism mutilation and pain but in these lays of hea i sage uch a ivantages are le 5 convincing Heverer ratium and the aray are unquestionably of ervi e as pulliative agents in ad anced case especially those of lesions for which surgery is of alue 1 the more hopeful stages 1 f MES [ R IN M D

#### Chanc O Radiation Treatment of Malignant Dis ase B 1 W I 93t B 6 7

The article is limited to radium therapy. The author state that rad lim is not a substitute for either the Nra sourcers. The principles under lying each meth date reviewed. When all of the method are useful experts there is little difference in their end result.

All con ferat n of radium theraps are base ion the important fact that grumma rass act on the disting cell and not n the resting cell. It is safe to a received that act tely mitotic tissue vill be sterilized; a distinct the will a receive the state of the same visit in the more primitive, then it we then short out the state of the short out the state of the short out the state of the short out the short out to the short out to the short out the s

I the fat that in rodent ulcer and relatively might in mile is: maintenance as a general relatively mile for mile the relation of the fat the fact of the fat of the

ell se it it the rate fell product in a lectre ell lest it in the first resultane of the life recollection and the life recollection and the life recollection and the recollection with selection and the recollection and

The ratio ensurvity of the surrounding structures inmits the scope of radium treatment. The liver is an example of its ue su ceptible to the gamma rays. The patient's general condition is also of importance. In the cases of cachectic patients and patients showing signs of general carcinomition tradiation is contain indicated.

All parts of the growth mu t be given an a le quate doce of gamma rays and at the same time permanent injury to surrounding health, its ue mu t be avoide! Such treatment is relatively sim he in acces bile areas such as the skin cervix

mouth and breast

The method by their adum may be ued are enumerated. They include the application of radum against the surface of the gro. It the mixtudential of the theory of the theory of the therapy or the placing of a large amount of radum at various distances up to several continuters from the boly a procedure hich inhaltes Vax treatment and a method called cariation the placing of radium in a natural boly acuts as in the The inhalting the place of the them to the place of the theory of the them.

surgeon most was originated in Dublin 1, John and Stevenson who ere the first to introduce emanation in a metal needle. This was one of the great advances in the treatment of cancer. The interstitual irradiation used today i carried out as ell by the surgeon as by the irradiation therapist Further experience will render implantation just as exact a method as teletl grapy and \ ray irradia tion. The radiotherapist vill develop an excellent technique of implantation even if he loss not nos ess special surgical kno ledge. In addition he vill know how to apply deep \ rx therapy or other methods when implantation should not be used Therefore the conclusion may be ira in that radium theraps will be best devel ped if left in the hands of trained specialists. The result of treatment lepends less on the technique than on the intell gence with which the ra hum is employed

In conclusion the author states that there is need for special radiatherapeutic clinics in which radiologists may study and follow up their cases Statistics and follow up examinations are a figeral importance.

1 Just 1 set 1 to 1

#### I e itt W. M. Radiation Treatm nt of Malignant Disea e B 1 M J. 031 678

The purpose of this article is to I seu as the jues tons as to when and in what form urradiati in may be I be applied in the treatment of mall giant it ever The methods of application are (i) interface that method (2) shorted tiance surface application and (4) long that the properties of the propert

Levitt is concerned chiefly with the relative value of the various methods used in the treatment of cancer It is assumed to be essential to rive an ade quate dose of gradiation throughout the extent of the malignant growth The proportion of malig nant tumors that can be adequately treated by in terstitual methods is limited chiefly by anatomical factors which interfere with access to the growth for insertion of the radium. In the use of short distance radiotherapy the requisite dose can be obtained only to the depth of a few centimeters Therefore this form of treatment must be limited to comparatively superficial lesions intracavitary methods are limited almost entirely to carcinoma of the uterus and growths in the tonsil and ersophagus Theoretically both the radium bomb and the \ rays possess sufficient penetrating power to permit application by crossfire method of almost any desired dose to any region of the body but in practice it is found that when the dis ease is widespread the application of large doses by this means is impossible. The facts brought out in this part of the article are summarized briefly as follows

r The interstitial use of radium is limited to accessible growths but has a very intense local action

2 Short-distance surface applications are suitable for local action to a limited depth only

3 Intracavitary methods are limited to the va-

4 \ rays and the radium bomb are capable of producing an intense action in any desired region but heavy dosage is not tolerated in very extensive disease.

In order to determine the suitability of irradia tion treatment for a given timor it is necessary to know (1) the origin and type of the growth (2) the extent of the growth and (3) the common directions of spread of the lesion even though such spread is not clinically evident.

Our Lowledge of radiosensitivity still leaves much to be desired Certain histological varieties of tumor have special characteristics as regards soms tivity but in the determination of the radiosens tivity of the majority of growths histology is office on no bely Histologically similar breast tumors vary greatly in their sensitivity. The author discusses three groups of dunors with regard to senderately indosensitive tumors and (3) radio-resistant tumors.

Among the highly sens the tumors are the small cound relief actrona and lymphosacrona the seminonal certain carcinomatic of the breast and overly and the mediulioblastoma. Among the moderately radiosensitive growths are the round celled sacrona the endosted sarroms are the cround drostrooma most carcinomata of the breast and carcinoma of the prostate bladder laryna: cerva hip and skin. In the group of radioresistant growths are carcinom of the rectum carcinopages and tongue

and carenoma of the cervical glands seco day to malignancy of the month

It is stated that most radioresistant growth are frequently incurable. While irradiation treat-ermay result in local success in every case of actumors the generalization of the disease places in beyond the and of radium therapy. Therefore the formation of metastases must be taken into acro: in the processes.

By the term highly radiosensitive tumor is meant a tumor which can be made to disaprear was doses of irradiation producing little or no damage to normal tissues local or remote Round-celled sar coma and lymphosarcoma should always be trea ed by external irradiation. For this treatment the I rays are more economical and more convenie t than radium Unsatisfactory end results in lym phosarcoma are due to generalization of the disease rather than to local failure of the treatment In terstitual methods should never be used in ro-d celled sarcoma or lymphosarcoma. The seminoma should also be treated by external irradiation. In a large number of cases of malignancy failure to administer sufficiently large doses of \ rays of ramma rays is due to the limitations imposed by the vul

nerability of healthy tissues For the destruction of moderately radiose set " tumors a dose of urradiation which approaches fairly closely the maximum tolerance dose of healthy tissues is necessary Therefore the trea ment of such tumors requires care and skill to avo d severe damage to healthy tissues. The best method is the interstitual application of radium as this pro duces the most intense local effect with mains exposure of healthy tissues. The regional lym nodes should also be given adequate intersual irradiation if possible. If the glandular areas are not accessible areas or surface radium is applicable in the neck but for deeper regions \ ray urada tion or telecurretherapy should be emplo ed. Il interstitual radium treatment is impossible because the lesion is too extensive \ ray irradiation often will succeed in reducing the growth sufficiently to permit the embedding of radium. If the possibility of complete irradiation of the lesson by the Liter statual method is doubtful the combined method should be employed. If interstitual methods are entirely impossible the \ rays should be used ray irradiation f equently yields good results in pharyngest and palatal growths and in carcinoma of the prostate cervar corpus of the uterus and thyroid gland. If complete disappearance of the lesion is brought about by \ ray irradiation either radium irradiation or surgery should be used in \$3 attempt to make the result more permanent Vod erately radiosensitive lesions of the skin are best treated with the \ rays but surface radium is of value for small growths When bone or cartilage is involved the chance of success is greatly red red.

For radioresistant growths interstinal irracases toon is the method of choice. The whole lesion must be thoroughly barraged. If this cannot be accom-

plubed. \( \) ray tradiation will alford some degree of pullation \( A \) resistant cervoral gland metassize pre ent a difficult problem there seems to be a tend ency to return to block dissection with pre-operative or postoperative irradiation with the \( \) rays and radium irradiation should yield results superior to those obtained ton should yield results superior to those obtained with either method alone. In a particular group of cases treated by surgery. Mrs. \( \) may be the only survivor after five years but if the same senes of cases had been treated by radiotherapy the ole survivor might be \( \) With \( \) the \( \) Sin but \( \) by a combination of radiotherapy and surgery it might be possible to save both \( \) Mrs. \( \) and \( \) Mrs. \( \) and \( \) the save both \( \) Mrs. \( \) and \( \) Mrs. \( \)

In conclusion the author sais that we should not be content with using only one means of treatment for even thou h we can make a breast growth dispear with radium trad ation the breast remains a potential source of danger and should be removed offered to the content of the co

I Ium Lusar VD

#### MISCELLANEOUS

#### Cumberbatch E P Modern Methods of Electrical Treatm nt P act to er 1933 c x 1 515

This article was written for the general practitioner to show the value of electrical treatment as practiced today to give reasons for it usefulness and to

indicate the part which the general practitioner can play in electrotherapy

By the term modern the author means that electrical method of treatment are now employed with a relative amount of scientific knowledge Much still remains to be discovered regarding the effects of these methods on pathological conditions and the way the effects are obtained

In the treatment of disease or murv electricity acts in one of three ways (1) by heating (2) by producing chemical changes in the tissues or (3) be stimulating muscle and nerve. The author enumer ares the advantages of the choice of electricity for the production of these effects and cites examples of its application in xarous pathological conditions in dufferent parts of the bod?

Cumberbatch believes that the future of medical electricity d pend upon the action and attitude of the general practitioner since he is the first to be consulted by the patient. The progress of electrotherapy requires both medical specialists and non med cal assistants The general practitioner should know whether or not electrical treatment is ad visable and what form of such treatment is indicated When he lacks the time to admini ter the treatment or is unable to admini ter it certain forms should be referred to the medical specialist, but other forms may be administered by a trained non-medical as tant under his direction Cumberbatch beli ves that the policy will keep the treatment under the direct control of the medical profession and prevent its exploitation by untrained non medical persons

GERTRI DE BE RD R .

#### MISCELLANEOUS

## CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

Newburgh L H and Lashmet F H The Importance of Beating Quantitat vely with Water in the Study of Disease 4 H J M 5 1933

The authors report studies of the water balance in cases of chrome nephrits with and without oldema cerebral bemorih ge and intestinal obstruction. They state that as the elimanation of the waste products of normal metabolism requires about 1 case an intake of from 4 coc to 5 coc c cm owher is required in such cases. When dehydration with a special collegation of the compact of

M HER ERT BARLER MD

## Wilder R. M. The Diagnosis of Parathyroid Over function I I n I LCI 1 1933 2.1

The diagnosis of parathyroid osteosis is usually comparatively easy if the disease is fully developed but is difficult in the early stages and sometimes even in cases of several years duration

In the differential diagnosis of hyperparathyroid ism it is necessary to rule out all other diseases in which the bones are involved as well as a variety of

vi ceral conditions While knowledge of the serum calcium value is necessary in cases of parathyroid osteosis the diag nosis cannot be based on this alone as the serum calcium has been found normal in unquestionable parathyroid overfunction and hypercalcamia is observed in a variety of diseases in which there is no reason to suspect the parathyroid glands. If there gard to the serum calcium in arthritis opinions differ Hench Vachlas and others with ide experience have not encountered hypercalcemia in arthritis. It occurs at times in gout and leukamia and especially in eases of multiple my cloma and malignant tumors of the skeleton Moreover the calcium balance may be negative in extensive destructi e processes in olv one bone such as multiple myeloma endothehoma and carcinoma of bones and metastatic calcification of the kidneys stomach and lungs such as has been noted with considerable frequency in hyperpara thyroidism is found also in these other decalcifying diseases Therefore none of these abnormalities of metabolism is diagnostic of parathy roid osteosis

The inorganic phosphorus of the serum is p obabl more significant from the disquostic stan Ipoint than the calcium. In hiperparathyroidism the serum phosphorus i usually low whereas in calcium continuity and or bigh.

Among the various conditions which must be detinguished from parathyroid osteocis are so-called ostertis cystica forms of endochondroma the School ler Christian syndrome of xanthomata of the mem branous bones exophthalmos diabetes insipides, and multiple my cloma and other mal grant tumors of bones In a number of cases of varathy rold osteosis the diagnosi of sarcoma has been made. Ewing s sarcoma with involvement of multiple bones ma occasionally be mistaken for parathyroid esteems but should be distinguished from it by excelal me t genographic studies Papet's disease bears only a superficial resemblance either choicall or mer genologicall to parathyroid osteosis and is associ ated with no disturbance of the calcium metabolism O teomalacia and rickets usually can be diagnosed from the clinical history of deficient natrition

None of the condutions mentioned offers subdifficult disagnostic problems as hyperparthroadanbefore the occurrence of a gross skeletal levon the the early stages when disagnosis would be of most benefit hyperpartshyroidsm is associated with sucboscure swuptomasa achin, of the muscles his rick mential and physical futique nenousness tachcardia loss of appetite and constipation. Some inners there is diarrhors and in rare exact properties and phosphatase of the blood in all cases present and phosphatase of the blood in all cases present this vague syndrome might help in the recognic thas vague syndrome might help in the recognic of some of the early cases but much laboration is vestigation of the large group of patients with s characteristics.

## Morton J J Hyperparathyrod sm I \u03b1 J Cl 1 933 1 8

Moston reports a case of multiple bone crists in which removal of the right inferior paratheroid gland was followed by cure. The pathological diagnosis

was adenoma

The clinical picture caused by hyperparathyroid

ism is characterized by i Weakness and loss of muscular tone

- 2 Pain and bone tenderness in the extrem ties 5 spine 3 Symptoms referable to the unnary s stem such
- as polyuma and renal colic due to the formation of renal stones. These occur only occa ionally 4. Castro-intestinal symptoms such as ep gastne
- p in anorexia and nausea

  The appearance in several bones of areas of
- The appearance in several bones of alcohol ratefaction due to c stic defeneration and demon strable in roentgenograms 6 Softening of the skeleton and p ogressi e trip-
- pl ng deformities. These occur in the late stages
  Elevation of the serum calcium from a normal
  of 10 mgm to from 12 to 24 mgm a decrease in the

r lasma phosphorus from a normal of a mem to from t c to 2 8 mem an increase in the excretion of cal cum especially in the urine up to eight times the normal and a high phosphatase content of the blood

The diagnosis of hypernarathyroidism is ron Cemed by

mortem examination in cases of multiple fibrocystic dicasea Improvement in the chinical picture healing of the cysts, and return of the chemical character of the blood to norm I follo ing the removal of parathy

The finding of paratheroid tumors at Do t

roid tumors 2. The production of the di ease picture experi mentally in animals by reneated do es of parathor

The disease continues to progress unless the cause e the abnormal parathy fold tissue is removed & collar incision is made as for a thi roid operation and the glands are carefully searched out lostonerative tetany hould be treated by a diet with a high cal cum and sitamin content

There is some difference of opinion as to whether the nathological change is a hyperplasia or a true tumor (adenoma) Witnest Mr v Is MD

Ceccar III G Heterotop c Bone Formation (Sulle fica-i r te topichel trit dikt

The author reports a case in which bone was formed in a laparotomy scar The patient was a man forty eight years of are who had been operated upon for peptic ulcer through a midline tipho umb l cal inci ion When he i as re examined six months late a portion of the scar consisted of a hard mass alout 8 cm long and averaging 2 cm in

th Histological tuck of the excised sear showed it to consist of large and irregular bons trabecular some of a high contained cartilage in the process of oss fication

Since the first similar case was reported by Islanazy in 1000 only about fifty cases of uch bone formation ha e been recorded. The author believes that the c ndition is more common than is as parent from the I terature

Ceccarelli was le l to undertake an investigation of heterotor ic bone formation by the case reported in the article and the ob cryate n of osseous plaques in experimentally produced had onephrotic sacs Bone format on has been noted in practically all organ but the most frequent type i related to tra ma (ri fer s b ine riffe man s bone) Bine forma tion in incisional s ars is most frequent in males from forty to seventy vears of age. It occurs almost always in the xipho umbilical region following perations on the stomach. This region seems esp cially favorable to its occurrence. The a thor cites a case in high to incis ons were made a xipho in bilical and an i guinal inci ion but bone forma t n appeared onl in the supra umb heal sear The bone formation generally becomes apparent from four to f e weeks after operati n in the form

of linear planues or indurations usually from 1 to a cm nide but often as much as 10 cm long The new hone a surrounded by connective tissue which fires it fromly to the surrounding connective tissue

and skin The formation of hone in lanarotoms scars mas be related to several factors such as a small unab earhed hematoma acting as a foreign body subnuration causing chronic irritation a specific in fluence of the blood elements postoperative cough causing a continued mechanical strain on the heal one connective tis ue foreign material introduced as enture and the transportation of periosteum into the wound when the knife cuts the riphoid The frequency of involvement of the linea alba i of enterect as not the tendinous insertions here representing the abdominal ribs of reptiles may yet possess retained o teorenetic nuclei canable of developing under stritisting stimulation. This may explain also the absence of infra umbilical bone formation Sumerous researches on different phases of the problem are reviewed

The author reports a senes of experiments car ried out on rabbits to study abnormal bone forma tion in the kidneys. These were divided into two groups. In some of the first group both the atteries and yeins were ligated and in others only the arteries In the second group ligation of the preter was done two months before similar vascular ligations. The specimens were studied from two to nine months after the vascular ligations. Bone formation was found in almost all especially in the remains of the riedulla in close proximits to and in contact ith the pelvis. In the kidness which were previously hydronephrotic the bone fermation was more pre cocious and farther from the pelvis a difference probably related to the increased amount of calcium

The author gives a detailed description of the hi tological changes in the various stages of the hone formation Preparation of the specimens by vital staining showed that an important role as played by the cells of the reticulo endothelial system

Ceccarely concludes that the cellular elements are the dominant factors. Under the influence of certain stimuli the und flerentiated polyblastic cells are capable of bone production. These cells are of the nature of history tes and a form of transitional cell similar to connective to sue osteoblasts and the blood harmory toblast A LOUIS ROSE M D

#### Svenn ng en O k Generalized Vanthomatosi 1 10 ad 1 1933 ti 49

The author reports a case of generalized xantho matosis in a girl four years of age. This conditi n has been called also id nituitatism and Chris tian's syndrome the latter term denoting a triad of symptom consi ting of os eous changes espeeally in the skull diabetus insip dus and exoph th Imos In the case reported by the author osseous changes vere found in almost every part of the skeleton there we considerable protrusion of the

eyeball, and the durrests was about 4 000 gm per INTERNATIONAL ABSTRACT OF SURGERY Cyclop and the dutris was about 4 on kin per thems four hours. The first symptoms were gin grifts looseness of the teeth with protricts and defense with the first symptoms were gin the form of the first symptoms.

Stritus looseness of the teeth with Poorthea and obscups defects in the lower jaw. The Bence Jones albumia has negative. Quarter light treatment operations of pituitin and a metallosal cure were

Frimann Dahl J and Forsberg R Vanthomatos 8 Roentgen

The authors describe the roentgen treatment in a Age authors describe the norms of calculation and a special free the structure of the calculation of the structure of the str case or zantoomatos:
to the different foci and had a striking effect. Roent to the guerest toes and had a stiffling effect. Robert Scholers showed a gradual dimposition of the control of the state o tion of hone substance

on or none supstance

Parallel, with the favorable effect on the local processes there was a striking improvement in the processes there was a stilling improvement in succeeding symptoms and the general condition The 51 mptoms of intractanial pressure disappeared the growth of the patient increa ed and the blood the growth of the pattent forces to add the subset cholesterol was reduced to normal. After two years the patient was practically free from symptoms Velaughlin C B

Laughlin C W The Corl ng Ulcer A Study or intestinate outstation resouration nature from the first the state of the state

The Cutting ulcer is an ulcer associated with con Associated with an order associated with con-festion and inflammation of the mucous membrane estion and minimization of the mucuo membrans of the almentary tract which occurs following super or the animentary start women octurs to norming super-ficial burns. Lesions of this type are infrequent ficial During Lesions of this type are most common in 10 and golds and farice as they are most common in vocale gens and rate as requent in women as in men line; occur most often following burns on the trunk. The seventy of the louoning our as on the truck the seventy of the butte is frequently not the determining factor in the development of the ulceration development of the diceration are cause is sum agne. The most common site of the diceration is the vague ane most common site of one uncreation is the diodenum above the ampulla of vater. The ulcers usually appear within from (No to seventeen days astart the burn. The alerage time is from six to auer the houn the average that is from set it well e days. The lessons may be long and narrow tweete cays the convey may be avoid and market. They are acute and usually progress rap di) to per they are acute and assumy progress rap on to per foralize or thealing. They show little tenden; to be come chronic. They may be single or multiple. The tome curonic they may be single or multiple the diagnosis to rarely postible during life. Death usually diagnosis is rately poss time during the Death distribution harmorrhage or perforation before the nature of the Jesson is recognized

For some time it has been recognized that super for some time it has been recognized that super ficial burns cause suprarenal damage. This is demon actat purify cause supractual gamage. Lais is seemon (i) hypercenia of the suprarenal and re strated by (1) pyperactual of the superactual and the duction of the lipoids and chromatin substances in currion or the upones and caromatum substances in these glands (2) a rise in the blood sugar, the height and reputity of which depends on the security of the burn (3) a reduction of the cholesterol content of the suprarenals to 15 per cent of the normal amount and (4) the occurrence of suprarenal hamorrhage

In the occurrence or adjustence memorinage
Animal experimentation suggests a relationship nument experimentation suggests a retailorsup-between suprarenal damage and castric and duobetween suprarenal namage and gastric and duo-denal ulceration. Mann found ulceration of the denat uteration want toute uteration of the stomach of duodenum in forty of satty dogs after bilateral suprarenalectomy. Following this opera

tion there is a rise in the urea introgen of the Usef to from 40 to 80 mgm per 100 c.cm. Historia kil to 100m 40 to 00 mgm Per 100 c.cm Histaria Eu been suggested as a Possible factor in the prod ct 1 of peptic ulcer

in experiments on twenty four dog the e the attempted to produce suprategal damage similar i attempted to produce suprareau damage material that produced by superficial burns. Of the term one animals examined at nectobs eighted sensor one animaes cammer at necrops researce see subjected to bilisteral, and turce to doubters: \$1.2 tend datings are supracting currer was injure chiefly. The injury was produced by a high free engineers. coagulating current. A penod ranging from e.e. meel to three neeks nas alloned to transite ke week to enter neeks has amoned to the are we then the operations. The animals were killed from tween the operations the anumais were sured trong one week to one month after completion of the open one need to one month after completion of the open in seventeen of the trenty one the procedure in seventeen or the transporter animals definite ulceration was found to the small anneas acquire uncertaint was round to the second intestine. This vas most marked in the d odoug. In no case, as there any evidence of gastine along an no case t us succe any evidence of gastin meets from On the basis of their appearan e the ul en were classified as acute and chronic. Tea were store were classified as acute and cultural fra were acute and seven chronic. In the cases of three of the 12th and seven curous. In the cases of three or the same and seattle analysis should no definite virther trains eastric anarysis showed no deanite variation the normal. There was no elevation in the area note the moranta Acute was no crevation in me and fifther the postoperative per of. These

nutro en auring the Postoperative per on these findings suggested that superatinal manification was not present to any marked degree of present to any marked degree turb the normal balance between the sympathetic and parasympathetic neriou system is decised.

1 THORNWELL WITHER FOO MD Weeder S D C1 11 385

P Ion dal Crat 4 5 1 190 A certain percentage of polonidal costs surses, and sacrococcy geal demoids can be circle

by bloc dissection of the soft parts over the dorma by once dissection of the soft parts over the universe of the sacrum and cocer x. In cases of recurrence of which rorniken examination of a sinus fact injected Rith a substance opaque to the \rangle rays shows the tract to invade the sarrooccy geal joint the type to an of methylene blue causes discolorate n at the sacrococy geal jour of the character of the two About the sacrocact geal joint is under su pice no remnant of the cast wall or sinus tract a probable contained within the sacrococci geal joint at an is Contained writing the eartrococcy gen joint as an an obliterated portion of the meduliary caral and curonucciated portion of the measurary cause and con-requires removal of this remnant by eros on of t e

In the operative technique described by the auth r the sinus tract was injected with methylene ble by means of a Liver sytinge with a goose neck on the and the mouth of the saus tract compressed ato f the cannots track with forceps to present lessage A wide dissection of the tract within the soft parts down to the secrum and cocci x was then done the COCCYT Was extracted at the sarrococcy geal joint a d the attendar surface of the sacromand sacral hands were circited. The wound was closed by Lake s method an incision being made to the side d va is the bone the inter ea ng tissue undermised at its attachment to the bone to form a double-pedded

fap and the Lap rue ed o er to the middine and find by sutures to the sacram

I THOR ELL WITH ESPON M D

[leaney II G Fatra enital Chorionepitheloma

in the Vale (m / C m / 3 x 2 in the Vale (m / C m / 3 x 2 in the Vale (m / 2 in the Vale

forth years of ge
A frenew of the liter t re disclosed 131 cases of
chon neptithelisma in the m le. In more than oo
ger cent the tumor ar sep munarily in the testicle
The pro-nosis is almost in ariably grave. Death has
occurred within two months. I the onset of sympjours but survivals for pen 1 is niger than two years.

have also been reported

non of testicular cho-Theones concern n th n herithel ma are numer a Often in the original tumors and occasi nally i metastatic growths teratogenous elements he been found this has led some investigat a t attempt to explain the genesis of chorioner their ma by the theories of origin of the terat ma B the use of the term sar e ma angioplas ique th French suggest an endo thehal origin. By nany an egithelial genesis is assumed The irei lence I chorionep thehoma in the testicle in the years of permato, enic activity has gien n e to the theory that the tumor has its origin in totipotential ells. By many the hypothesis of misplaced blast meres with sulse ment malignant degeneration is ac epte ! Heaney believes that in his case the turnor was due to the progenital anlage

The suffer orset of a mptoms which became in crassingly mo exerce the rapid loss of weight the unlocalized pan and the loss of statity core sponded to the u u lintory in such cases. The sagnos a was based in the finding of a hamorrhagic necroic mass in the retroperitioneal area and a

s milar fulm nary metastasis in which histological etamination revaled syncytial cell masses and p lithelial cells r fresentati e of the Langhain type in the normal place ta Joseph & Nabar M D

Rapino 1 S Stud of Cancer Immunity (C n
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The author reviews 16) pontaneous cancers of the author reviews 16) pontaneous cancers of the returned of the security in ferale rine. At the time he fund cancer of the breat in 3.6 per c. tof 2.3 per c. The majorty of their mors were intelling me mail bott two occurred in animals. It existes much of age and 5 m animals the resistent much of age and 5 m animals the resistent much of age and 5 m animals.

rg r than t n m eths. These c neers furmed

Thut four of the tumors were simple alveolar cartinomata 5 were et tie alveolar cartinomata 1 was a cystic papilliferous cartinoma 62 were redullary cartinomata were searnhous cartinomata 1 were alveolar adenocartinomata 1 were medillary adenocartinomata 1 were papilliferous cytic adenocartinomata 2 were papilliferous cytic adenocartinomata 1 was a simple cystocartinoma and 1 was a papilliferous cytic adenocartinoma 2 were papilliferous cytic adenocartinoma and 1 was a papilliferous cyticartinoma

When a cancer graft takes it is the train planted cells that problerate the cells of the host animal do not contribute at all to the increased size of the tumor. The relative biological independence of the graft within the body of the host is decisive proof that cancer is not contagious.

Some of the mice showed several cancer nodules One hundred and twelve shoved only a nodule a had a tumors 16 had a mid had a. However the author believes that these were not primary multiple carcinomats of the breast but meta taxes from

a single primary cancer

Some of the tumors could be gratited but others did not take under ordinary experimental con littons Of the 160 tumors 36 could be grafted and 133 lid not take. With this material and material from the Imperial Cancer Research I und and Jensen tat sar coma the author stud of the most important problems in the technique of grafting tumors such as the dose to be impered the age of the host amounts the does to be impered the age of the host amounts the such as the such as

He studied also the changes in the structure of the timors and in the percentage of grafts that took in the course of a series of transplantations carried out once a period of several years. In come instances a relationship between the percentage of grafts that rook and the structure of the tumar was apply arent Raposo confirmed the findings of Bashlir 1 and 1 bits of the structure of the success in Percutations on the visibility of the success of the structure of the success of the s

In the third part of the article the author takes up the quest on of natural res stance to grafts and the immunity acquired by grafted animals. He be lieves that res tance and susceptibility depend on local cond to us of nutrition of the grafts. He found that if edetosis is brought about in a zone in which a tumor is to be grafted it prevents the graft fr m taking The ad buon of blood plasm or seturn to the grafted material makes the cells survive ion er who ti as with a pli higher than S or lower than also inhib t the growth of the grafts. He erricues the clas ical their of a specific reaction of the str ma and also the mo e modern theory of a lymph wat o te ction. He believes that the I mp seat ofe ction s of less impo tance than it has been as amed to be an I that blocks le of the reticulo end th I al sys m is not of any special importance

With reference to acquired immunity he agrees th Rus ell that grafts of some tumors produce a condition of immunity of varying duration while those of other tumors do not produce such an im Autolysates and extracts of the tumors studied by him did not bring about immunity. He was unable to confirm Lumsden's conclusions with regard to the humoral mechanism of cancer im

The article is followed by a bibliography of 24 pages AUDREY GOSS MORGEN MID

Tavares A The Influence of the Nervous System in Experimental Cancer (Sub ld: pa a o estud in experimental cancer tout on the accessor dat fit not d's tena ners so no c co expenimental) i q d p i 1 93 \ 56

Several investigators have carried on experimental research in an endeavor to determine the effect of the nervous system on the growth of cancer but the r results have been contrad ctory. Some of the experiments have indicated that the sympathetic nervous system is a primary factor in the produc tion of cancer as sympathectomy seemed to activate the production of tar tumors of the ear and suppress on of penpheral cerebrospinal innervation had an unfavorable effect on the growth of these Other investigators reported opposite results This di crepancy in experimental results was found also in the few clinical cases in which attempts were made to treat spontaneous tumors in man by neurectomy

In an effort to solve the problem the author per formed experiments on rabbits. Tumors of the ears were produced by the use of tar heated to 56 degrees In some of the experiments sympathectoms or neurectoms of the nerves of the ears o both opera tions were performed before the tar cancers were produced in others the cancers were produced

first and the nerve operations performed afters: In the cases of unilateral resection of the zerrent other ear served as a control

The following conclusions were reached as a real of the experiments

Preliminary sympathectomy has nh a digit effect on the appearance and development of the tumors in the rabbit If it has any effect it is to favorable rather than favorable to the growth of

When practiced after the tumors have de veloped s mpathetic neurectoms seems to interfere with the development of the tumors and tens to bring about retrogression and cure even bentle tumors are of a mangmant type. It must not be fr gotten however that spontaneous reco er, sore times takes place in these artificial tumors even if the tarring is kept up \ot a single case of against tion of the les ons was seen after sumpathene neurectomy

3 This action of sympathetic neu ectoms ma be due to changes brought about by it in the natu tive condition of the fissues. It causes an intense fibrous connective tissue reaction which is a defense reaction against the proliferation of the turior ce

4 Suppression of cerebro pinal innerva a eemed in some cases to have a di tincily favorable effect on the development of ta tumors when

other case it had no perceptible effect. These results are not in agreement with those of other invest gators The author says that the deagreement and the discrepance in his own results in a given group of experiments prove the importance of a combination of all local and general factors of individual receptivity in experimental cancer. He believes that predisposino general factors are of more importance than the local conditions produced AUDREY GOSS MORG MD

## BIBLIOGRAPHY of CURRENT LITERATURE

NOTE—THE BOLD FACE FIGURES IN BRACRETS AT THE RIGHT OF A REFERE CE INDICATE THE PAGE OF TH ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOU D

#### SURGERY OF THE HEAD AND NECK

#### Head

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DUNNINGTON Arch Ophth 933 x 438
The rec ss n operatio f tral sm R J CURDA

Im J Ophth 1933 vt 890
Mucocele as cause of propt s S A report of six cases.

V, B CHAMBERIA and T L PARRY Arch Otolary gol

933 VI 172
Mi. ed tum rs of the la brymal gland I Adreo use d
P. Lactevit Re. 440 med 18 t. 135 l. ii. 3 87
Trach ma in Egypt P. K. Dlitsky d. J. R. Tilfr
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JCLIANELLE and R W HARRISON Am J Ophth 1033

X 1837 [106]

Trachoma treatment with chaulmoog a oil E D
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Surg 1931 ER 676

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Tuberculosis in ocula diseases. W. C. Provo r. J. Iowa State M Soc. 1933 xxn 539
Oculogland lar t ! remna. T b Feller Texas State 1 M 1011 xnx 161

Cautery e nteration M Disselpore Rev Asse The Argyll Robe tson pup I L F Mc A DREWS Arch.

Ophth 1935 x 5 A case im I n tic sare ma of the ns S J Meyer ad

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nuficance 4 W Yerren a d 4 C uses Arch Ophth 1033 X 469

1933 7 495
C reulati n of the aq eou III The eabsorpti n of crystalloids. J S FRIEDEN and H F PIERCE Arch. Ophth. 1933 X 449
Glassyn twork in the fire chamber port f case I ZIPOEKES Arch. Ophth 1933 x 5

Tubercul us sel rok rat tis K DE 1 Am I Oobth

Og n 800 Ch mistry fth lens L S OBEIN dP W SUIT M. J Ophth. 1933 x 1.800 Dislocati n factystall 1 s.1 th pace [Teson. J A. Sex V. Sman m d 1933 M 7 5 Et pa 1 u eport f a case of tal dislocati ductify downward W D H 00. xx a 4 S M SEX

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An el cincal method for use a the diagn sis of d seases f the thyro d gla d M A B BRAZIER. Lanc t 1933 CCLXV /42

Thyro d dist bances with cardiac sympt ms the rela to ship between the basal metabolism and the circula tin A RAVINA a d S Lion Presse med Pa 1933 1 1485

Chrom inflammati n f th thyro d gland. K Stojal

O SET 1 ch f p th. An t. 933 cclrrxviii 660 G n ribocal thyro ditis O Schuerch and H Gutscher. A ch f klin Chi 1933 class 638 Clinical hypothyro dism O P Krassall K at cky

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goite C A HELLWIG J Kansas M Soc 1933 EES 380
The tiol go diagnosis and treatment of got
JACLSON J Missouri State M Ass. 1933 XXX 380

Studies in the p e ntion of goit r W Westov We t J Surg Obst. & Gynec 933 zl; 58

Food a d g ite IR R McCarriso Bit. M J 1933 11 07 [109] I trath racic goit r P CLAIRWOVT M e chen med Wehn chr 933 643

Pre-operati e d postoperat e care of go tr H. L.

HARTLEY A rthwest Med 933 XXIII 4 9 The use of odine in thyrot xicosis. H. R. G. POATE Med J Australia 1933 # 411

Pre-operati and post perat e treatm t f bad risk pl fo touc goit 5 J WATER ORTH West J 5 rg Obst & Gynec. 933 zh 53 [110] [110]

Exophthalmic go ter in children of ten i under Comments based on a senes f r cases. I from P ansyl ania M J 933 xxx 1 45

P drays again vi J 933 art vi 45 Clamcopath logical and the rapeutic averts of thread carcinoma. J E Britas Illino V J 1831 hr 18 The surgery of the parathyrods. I To surged nationy of the parathyrods. The significance of c. cermia. The syndrome of hypoparathyrodsin. It WELTT J d chir 1933 zlu coi

[110 The surgery of the parathyro ds. II Hyperan y ro dism and its a rgical treatment. A Jone J d ch.

1933 xlu 5 9 Practical nat mical considerat us of the largus. J M LORE Latyngoscope 933 xlu 693 Innervatio of the laryns III Experimental paraly-i th laryngeal nerves. F LEMERE Arch Ot laryng i

1933 111 4 3 Fractures of th laryn with the report of case. H.O.

GARD TR. Arch Ot laryngol, 1933 xv 440 [118 Differential dia-mosas of dis-asses f th larynx. ] D KERNAN Laryn, scope 933 xlm 72

The et 1 gy ndt eatm at footsettelee of th hyps L Jucksov Laryngoscope 1933 thu 118 Laryngeal scieroma in native M ss uran report of case F C Helwig nd \ Jaire. Arch. Ot laryng \ 933 × 111 31

I emphisus beginning in the larynx report of a case. H D VISH Laryngoscope 1933 xlu 823 Cysts f th larynz. VI C MYERSO Arch Oaking

g 1 933 xv1 St Th impo ta ce of roentre m xamınatı tum rs f th larynx W H McGence Am J Roest Ca cer of the larynx E S Wasser J Ved to

Georgia 933 xxu 333 Laryngectomv F G MES a d J D 1 Stl. R 1800 med rge t 933 xlv1 2948

#### SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverings Cranial Nerves

Corticalization of function and fu ctional localizat n in the cerebral co tex. J & Dusser De Barenne. A ch 11121 e rol & Psychit 933 xxx, 884. Hypothalam s nd t mperatu e ontrol. H C BAZETT B J ALPERS 2 d W H ERB Arch N L& Psychiat

19<u>33</u> XXX 728 Th cerebral circulation XXV R marks n clinical phys I gy S Cops A n Int Med 1933 29
Cerebral circ lation XXIII I d ced nat n in

out of the state o WRICHT J J GREEVE a d D H SMITH. Arch S re

Immediat treatment f fractures f th base f the kull. C LEVOREANT P WESTERMER and J P TEL J d h 1933 zlu cro

Non fatal gunsh t injuries of the skull with intracramal retentio fth projectile E. A. Schutter Colorad Med.

1933 XXX 3 4. Cerebral I calizati n of epileptic manifestatio W PENTIELD nd L GAGE Arch Neurol & Pychist 1933 XXX 09 c rebral ascular mechanism in

The edef plep ; W PE FIELD An I t Med 033

der tions on traumatic jacksonian epileper Some co P VIY and BARGUES J demed de Bordes v, 933, Ct. e pilep y complet ly alleviated by encephalogia phy J M SHELLIE Proc. Roy Soc. Mrd Lond. 933.

poly j a subset and the profit one considerable export ment if B wan, encephalography j M Sartitat Proc. R y S c. Med. Lo. d. 933 xm 14 Mr. and e cephalography in hepphrenia. B P Art nail e cephalography in hepphrenia. B P Art nail e cephalography in hepphrenia.

ARIAS F IRAZOQUE A BAGES and J R. DE S Z. Rev med d B n l na 933 48

Ce ebral localizati n in cerebro ascular disease C.

D ISON S P GOODHART d W NEEDLES 4rch No.

rol & Psychiat. 1933 xxx 749 Sum late f ascula disease of the generalical pathway by a c rebral t mor K B \out \text{Voto Med.}

Austral. 933 Lettal. 933 400 Lettied tumor fith a mporal lobe a critical review of fifty tw cases. S N Ro E Arch Seurol & Psychat.

1933 IIX 8 4 Impa to a of neuro-ep th hal cyst in the third newle of th brain C O RINDE and P R. CAN & Arch Neurol & Psychist. 1933 XXX 880

Ce bral angi ma operated upon. \ Diserras and M Billio R Ason med arge t 1933 st 1, 34
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& P yeh t 1933 xxx 9
A case of intrapont le ghoma differentiation f yn dr mes ref rabl to pr eress v invol m nt of the pontile mesenc phale nd b lbar r gions L F Barker Arch.

\ urol & Psychat 1933 xxx 875 tum r of the lit cerebell pentie a gl 1 (4s B SI I P behn Rom 1933 I se pr t 152
Tube culoma of the occupital lobe r m val recovery F A L ST MMERS Proc Roy Soc Med Lond 1933

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Syringomyelob Ibia C B Canarra R v Sud im de m d et de chir 1933 1 361 S rg ry of th bra apen aces and re ults II Horr and L. SCHOE BACER

d L SCHOE BAYER 933 L p 1g D ut cke
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Med J tu trains 1933 u 55 Clro c bd rai hæmatoma et ology and t eatment J Kergs Arch Surg 933 xxvu 59 [11] (114)

Structure of the hum n opt c ch sm M BALADO and J MALBRA' Seman m d 1933 al 79
St dies of the pic tract. VIII Optic rad at on in man
M Balano and E. Fra RE Arch are nt. de neurol.

033 124 22 trob lba neurit s its diagn sti importance 's w nolm I this O antique to of the felds. A J Manes Seman med 1933 al 826

U il t ral par lysis of the f c palate nd larynz M Frinnin Laryrgoscope 933 zli 740 U il t ral myotonia in the muscles un rvated by the f cial ery A Carra a d J C Garra A ch rugu you de med carug ye pecual 193 m 308
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#### Spinal Cord and Its Coverings

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ot c p raplegia A DRÉ THOMAS SORREL a d So REL DEJERTAE Presse med Pr 933 El 1542

Spastic spi alp ralysis of Lrb syph lit c sp n I paralysi of 1 rb and spasmod c familial p alys s of Stru mpell A. B FORTES nd E DE MACALHARS Rev Sud 1m de

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#### Peripheral Nerves

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#### Sympathetic Nerves

The neur v getati e st te and neu o egetat e re t ons and ther I ti nsh p to surg cal and operat e prognos a. E. L. URANGA Rev de cirug de Barc lo 1933 11 330 434

Sympathectomy an e per m nt in human phys logy J I Ross But J Surg 1933 xx 5 [114]
I Ross But J Surg 1933 xx 5 [114]
F ogress in the surgery of the sympathet c n to system in 1932 J C White New England J Med 101

1933 cris 843
Surgery f the eg tative nerv us sy tem A ST FL
15GER J Med Soc New Jersey 933 x 739

Bilateral gang on ct my in la ki son a synd om HARRO VER and J C GROSH Brt M J 933 11 77
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A new case of parapleg a due t Pott's d sease cured by lumb r sympath ct my A R Egana Bol v trab 5 c de c rug de Buenos lires 1022 x1 0.4

#### Miscellaneous

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### SURGERY OF THE CHLST

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#### Traches Lunes and Plence

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The significance of roents not great changes in differen tial diagn ss of atelecta W F Manges and 1 T

FARRELL JR Am J Roentgen 1 1933 XXX 4 9
Con nital pn umothora P F Barboor & ntucky M J 1933 x v 499
Spontaneous b lateral pneumothorav P Rici novo

U 5 Nav ... Bull 1933 Exts 3/9 The importance of he or h scopy in obscure pulmonary c nd t ons. I Withter New York State I W 1011

Recent views on the treatm at of diseases of the lung and pleura 4 I 9 Practity and H 1 Monto a

Pract tioner 1933 exxxx 3 7 liten sci sis of the pulmonary ten P Forze Policin Rome 1013 xl sez med p3

Mult pl ancurisms of the smaller branches of the nul monary artery I M Bankes and D E Stepen Am I Roentgenol 1933 xxx 443

Annionneumography E Covte and A Costs Rad 1 med 1933 xx 1301 Hem uc cyst of the lung R Rossi and J D MENDER

Rev 1soc med argent 1011 11 1007 A case of syphili of the lung with the s ndrom f pulm nary suppuration R C FERRARI and F L NING

Bol t de chn qur 933 ix 10
Br nch ecta s F C Roles d G S Tood Brit M 1933 1 630 1117 The t atment of bo hopulm nary suppuration of

fusosparochietal etc logy with mail doses f eosal man H I S ECTOR J Lab & Cin Ved 1933 xix 66
Putrid lung absces F P Vinler Texas Stat J V

DE 281. The treatment of p knonary base a A I Jacce.

Med Ibera 1933 1 1 373
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### SURGERY OF THE BLOOD AND LYMPH SYSTEMS

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R ynaud's syndrome treated by ympathectomy \ \ \
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Land tost xxv1 1:42 An exp rimental study of the effect of els tic compress on on the vessels of the extremute as a prophylacti measure aguinst thrombo is. E Mackern B itr z klin Chir 1033 (352) 230

Lat n e ven us thrombosis without embolism. W

STORER D utsche Zischr f Chir 1933 ccsl, 471
On the relation between thrombophi bits of the inferior na ca a and occi sion of the hepati veins (e dophleb tis hepatica obliterans) R. H Ri 100 Bull Johns Hopkins Hosp Balt 1933 lin 162

Rheumatic ch n es in the tissues with n rticular r fee ence to th umatic vascular inflammation. R. Roessig Arch f path, An t. 1033 cclaar m %

Indications and re ults of arters oraphy in artentis. 2. LERICHE R FO TALE and P FRIER Presse med Par 933, xl 1100 (151)

Ludart ritis obliterans f Umiwarter H monymous bemin plus and pontaneous gangrine fith lower ex-tremity. The question of endartential blit rans due to cold a d f llowing trauma. O MERKE\_BACH Zischr f

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Rev m d d Rosano 1933 xxiii 639 Th effect of art ri enous neurisms on the circulati n W Pick, D utsch Zischr f Chu 1033 ccxl 113 [151]

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H. F. THURSTON and E. B. LAMB. Arch. Sur. 933 XXVIII (152) The techniq e of suture of the smaller artenes. O loss

B tr z klin Chir 1033, cl 21 4 4 Perenerati n of the muscula and fibrou ela tic tissu in the blood essels. E Pegrerri Arch ital di chir

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11 chrischr 933 1 553 The injection of acetylch lin f r vancous alert of the leg B A HARDENBERG Ned tl Tijdschr v Gereest

1911 P 7 S Potassium oleate as a sclerosing agent fo various ve-E. J. PERKI S. Colorado Med. 1933 Kts, 357 Th. after-care of vancose legs. S. alchesta D. Lacer

033 CCER 253 Human capillaries in health and in disease 1 S Waters and I W Dreser Arch Int. Med. 1012 ht ut 1531

#### Blood Transfusion

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### SURGICAL TECHNIQUE

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# PHYSICOCHEVIICAL METHODS IN SURGERY

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# International **Abstract of Surgery**

Supplementary to

Surgery, Gynecology and Obstetrics

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Surgery of the Head and Neck

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# INTERNATIONAL ABSTRACT OF SURGERY

MARCH 1934

# ABSTRACTS OF CURRENT LITERATURE

### SURGERY OF THE HEAD AND NECK

#### HEAD

Kettling W Tumor of the Jaw W th a Consideration of it is Cases Treated at the Anschar Hospital at Kiel During the Years from 1998 to 1919 (Tmr mandbul unter Beruecks chigung de ind rj hre 1968) to 9 inh % th Kraken hau Kel beh nielten Faeli 933 Kiel Dert 10

Besides the tumors found also in other parts of the skeleton there occur in the jass peculiarly local odontogenic tumor. The author classific the latter as follo's (1) cysts (a) radicular (b) foll cular (2) adamantinomata (3) odontomata and (4) congeni (a) odontomata and (4) congeni

In general tumors develor more frequently in the maxilla than in the mandible and law tumors are more common in females than in males

The radicular dea at cysts develop in fully formed teeth from granulomata. They show internally an epith elial lining and contain a clear yellowish fluid. In cases with infection their contain puscells epi theilatell and chol sterm platelets. In the cancel lous bone of the marill these cysts find a greater possibility of extension than in the mandible.

The follicular cysts are traceable to disturbances of ce clopment of the tooth germ According to I flueger the Vislassez epithelial indge ser es as the matrix. The interior of the cysts is I ned with squa mous o cytindr cal ep thehum.

mous o cymbat var ep menun

The adamantinomata which appear in solid and cystic forms a etrace let oa aproliferation of super ilious touth germs or paradental residue of the enamel of thehum Withough the et mo s do not metastasize local recurrences ppear if they are not moved completely. Cl. ically they are benign

The od atomata do not represent a uniform type fumo. They con ist of de tal lausse lements and may de el p from on or more embryonic rudinents. Occasionally fully de eloped tooth is found h dden nder an odontoma. The most harmless are the dontomata attached to the roots the so called enamel drops.

The congenital odontoblastomatic (congenital epulides) are extremely rare. They appear as tumors about the size of hazelnuts which are attached to the law by a broad base. They are chucally beingo

Of the tumors of the jaw not arising from the dental system the malgnant tumors are the most common. All forms of sarrooms (m) elogenous peri osteal undifferentiated round cell spindle cell and many others) are represented. The relationship of the so called grant cell sarrooms to ostents fibrosa 1 dismitted.

To the immature tumors of the connecti e ti ue serie belong in addition to the sarcomata the epu lides which have their origin in the periosteum of the alveoli especially the peridontium Certain exo enic factors (inflammation chronic mechanical irritation) and endocrine disturbances of the organ ism (pregnancy) are believed to be responsible for their development. The occur about twice as often in women as in men. It is necessary to differentiate between epulis fibromatosa and apulis sarcomatosa According to Konjetzny the latter should be considered I of a true tumor formation but a local zed oste tis fibrosa A third form of epulis 1 the so called epulis carcinomatosa which in contrast to th other types forms metastases. In this type of epulis resection of the affected jaw should be done whereas in the fibromatous and sarcomatous types a thor ough scraping of the diseased tissue under local anasthesia usually gives good res Its

In contrast to the surcomata carcumom of the paw occurs more frequently in males than in females. It is most common in the fifth and sixth decades of the The true primary carcinomata originating from the mucous rembrane of the jaw (carcinomata of the mucous and the alworlar process the antium and the mucous of the alworlar process the antium and must be differentiated from second type of other mucous membrane of the mouth Jips salvesty plands and tongue which may extend to the jaw plands and tongue which may extend to the jaw irequent]. These carcinomata develop on the basis

I requent these carcinomata develop on the basis of feucoplakia. On histological examination the tumor as found to be a carcusoma simplex or a squa mous-celled or cylindrical-celled epithelial cancer \(^1\) hope of cure is officed only by early inter-ention with radical removal of the diseased its is. Post operative recurrences accordingly frequent. In importable cases of extensive resecutions with hympigland and hamatogenous restrictions with though gland and hamatogenous restrictions. The emission importable cases of extensive arrivation. The confirmal from irradiation alone are extremely or. On the other hand after surgical removal of a curroomer energetic irradiation is advisable to decrease the danger of recurrence.

On the basis of six cases of carcinoma and one case of sarcoma of the mandible the author discusses the principles of the surgical treatment of these tumors according to the extent of the growth partial re s ction or total extirpation of the diseased hone or under certain conditions even exarticulation is necessary Essential for a good cosmetic result is pros thetic after treatment in important advance in modern surkery is the use of an implantation prosthesis which is introduced into the wound immediately and left to heal in The removed hone is best replaced by a free bone transplant Pain i usually relieved by anasthetizing with novocain the tri geminal branches at the base of the skull according to the method of Braun or the gasserian ganglion according to the method of Haertel. The bleeding from the hone (inferior alveolar artery) is best con trolled by compression with wax or by the use of the thermocautery To prevent aspiration of blood a prophylactic tracheptomy is sometimes necessary The peroral intubation of Kuhn and the use of intra tracheal insuffication anæsthesia induced by the Meltzer Auer method are also of value

In conclusion the author says that satisfactory results in the treatment of tumors of the jaw require close and intelligent cooperation between the sur geon and dentist Eccesary (2)

### EYE

Beigelman M N Actinomycosis of the Orbit

The author reports a case of actinomicosis of the orbit which came to autops; and reviews se enteen cases of this condition which he collected from the literature

His own case was that of a forty five ear-old must who had a paralest tumor in the parotic region. Following its excusion the neopla in was dispussed as a granulous of undetermined ettology. The wound continued to supporte for morths and the process extended in the eight causing prophoses and optic neuralist and into the brain causing a low grade meningitis. The patient deal about their months after the first noticed the timo.

Cultures made from smears from an abscess in the temporal lobe of the brain showed the characteristic my cela The author believes that the infection may have entered the orbit and brain through the subemodal fissure

Whether or not large does of poiss...am sol e would have changed the picture is problem; all is the danger of the condition lies in the estens, 51.0 the erabal cavit. The meningitis may cause fewer no chinical's gips of symptoms.

#### TROKAS D ALLE MID

### Vail D T Jr Mixed (Teratold) Tumors of the Lachrymal Carupcle | free Ophil 1011 L to

Vall reviews the literature on tumors of the carcle suggests a classification of such tumors, a f

reports a case. The case was that of a man twenty four years old who had had a growth in the inner canthus for rear years The tumor had had a sincle large hair in it for seven vears and three weeks before the natest was seen by Lail it's iddenly becan to erow ramily The neoplasm was a firm sessile platenage red h tumor with rounded edges which meas red to b 8 by 4 c cm. The microscome section con a col fibrous and adipose tissue mooth muscle, a sela ceous pland hair follicles a large exst. numero s small cysts many blood vessel and lakes of blood No evidence of malignancy was observed, and three years after the operation the patient remained free THE MAS D ALLEN MID from recurrence

### Kronfeld P C. Funct on of the Re attached Retina 4rch Oph h 1933 x 546

Little has been published concerning the function of the re attached return. An anatomical restrict ment without return of function is a gain but the possibility of the return of vision will always be the find undergenent for a patient to submit to open

The author reports in detail six cases in which careful perimetric and central field studies were made These were cales of partial sector shared retinal detachments of more than one months duration which were uccessfully operated upon b the Goun Lindner o Wese diatherm methods The -degree wh te isopter was normal outside of its limitation at the immediate area of operati & The o 1 -degree isopier for white was constricted in each case the degree of radial constriction in parently depending strictly on the duration of the detachment and perhaps on the age of the patient The dark field paralleled the isopter for o 1 degrees closely except that in one case of very long standit remained nil o er the entire re attached area The longitudinal extent of the constriction for whit colored and light targets in the dark room para eled the extent of the detachment \o signs of remote permanent nomous effects were observed follows. uncomplicated operations by the Gonin Lind e Lindner Gui t or Were hafar method

In cases of partial or complete macular detachments of less than two months duration and case of partial macular detachments of more than two months duration the prognosi for the restora of function is in orable

WILLIAM MESS JE MD

#### NOSES AND SINUSES

Leroux L and Delarue J Contribution to the Histological and Anatomoclinical Study of Assai 1 otyps (Contr button 2 lettude in tol sique et an tom clima des polypes du n ) (dan t \$\theta\$ (it not) \$\times 1\$ (it not) \$\times 5\$ (it not) \$\times 5\$

Various I tological types of nasal polyps are described In the most common type the covering epithel um a normal but the choronic elements show proliferation and are dissociated by cedematous fluid In some cases the inflammatory phenomena are minimal as in pseudomyxoma. In others they are marked and the conthehum undergoes changes which may result even in total necrosis and bone involvement In a third group the inflammatory signs are superficial and the deeper portion of the polyp consists of a granular tissue rich in newly formed blood vessel This is the telangiectatic in fiammatory granulation which when epidermized forms the histological substratum of a true polyp It is the type found in cases of numerous multiple polyps of the sinuses and septum

In a slightly different variety of polyp the f brous proliferation assumes important proportions sclerost is the predominant histological feature and the epithelium is nearly always in a state of malnightan

metaplasia

Among the inflammatory polly ps there are those in which the plasmocytes seem to predominate grang the appearance of pseudo tumor (plasmocytomata) and in the opinion of some furnishing proof of a sphilitic origin of the inflammation. Russel bod es may be found in the ill mar cells and free

Of greater interest in the authors opinion are the polyps in which cosmophile cells predominate being found not only in the peri ascular inflammatory nodules but all of distributed throughout the entire section and e p cally at the surface in the subjective in the subject of the probability one among the enithel all cells themselve

In some cases the term polyp tumor might be more descriptive Sometimes the polyp ag pear to be invaded by numerous glandular acim n a state of be invaded by numerous glandular acim n a state of prodiferation so violent as to seem in itself pathological. The general shape of the polyp n such cases is that of an adenoma. The chronion may be thorous or edematous and is often in a state of riore or less active inflammatory reaction.

One type of polyp the pseudo ang om tous type presents numerous ascular cavities. In others the inflammatory symptoms have subsided and only a dense sclerosis remains about the nenty formed ves els. There are also polyps resembling in apper ance a capillary angioma with numerous blood per fance a capillary angioma with numerous blood

ca rates but no inflammatory, phenomena hatever It is clear that nasal polype do not constitute a constant definite histological entity but all of the aspects may be considered different phases of the inflammatory pro ess for polypen! specific my ona to bethroomy come from telang estatus granulation to angomatous pol p and from slight glandular hyperil sa to the adenom tous polype

However the pathogenic processes for each type differ Thus in the granular polyps polyps with acute inflammation polyps rich in hbrous tissue and inflammatory cells and polypoid plasmocyte granu I mata there is usually a le ion of focal infection thout bone involvement whereis in polyps in which the chief feature seems to be an ordematous infliration of the chorion there are evidences of a veritable hyperergic inflammation In the latter type a vasomotor disturbance is the factor responsible Recurrent polyposis may be in terpreted as a manifestation of the exudati e diathesis. The eosinophile polyps are sti mata of the asthmatic diathesis. The authors believe it most difficult to prove a neoplastic origin of polyps epecially as so many cases of pseudo angioma and pseudo adenoma sho an inflammatory basi

EDITH SCHANCHE MOORE

Stewart J P Progressi e I ethal Granulomatous
Ulceration of the Nose J I a yngol & Otol 1933
xi at 677

The author reports ten cases of progressive lethal granulomations ulceration of the noise. The pathological basis of this condition is unknown. From the clinical and microscopic appearance. Stewart concludes that the lesion is not a tumor but essentially a progenic condition a chronic inflammatory process. The clinical picture 1 that of progressive destruction of the noise face and plannar. It is char acterized by a prolonged hectic lever and frequent severe harmorthages. The most marked feature is the patient is complete lock of resistance to the infection. The condition differs from agranulocytosis in the fact that the leucosytes range from 2 200 to 13 800 but In proportions of the cells are normal

In all of the cases reported the condition was successfully differentiated from syphilis tuberculo sis malignancy agranulocytosis mycosis mytasis yans or frambesia thino cleroma leishmannasis thino hary ngitis mutilans (gangos ) and trophic

post encephalitic ulceration

Bacteriological studies in seven cases showed a

streptococcus in combination with a staphylococcus. Local applications price of useless. Arsenic had no effect on the progress of the disease. Radium was employed in two cases with indefinite results. Deep radiotherapy seemed more promising and in the author's opin on should be given a further trial laws. See Sassives, M.D.

### мочтн

Grossmann F If eResults of Radium Therapy of Cancer of the Tongue on the Basis of the Mate said of the Go ernment Roentgen Institute in L singrad (D. E. gebn se der R. di. m. the ape des Yungenks 1 s. b. dem Mate 1 des St. ticl n Roentgen ututs n Lenungr d) 1 t. Re [t. n. 1] 103.

Radium therapy may be employed in a greater number of cases of cancer of the tongue than radi cal surgical treatment as even inoperable cales fre quently re pond to it. However grossly neglected cases with large meta tases in the glands metasta es in the lungs or cacheria should not be treated by irradiation as in such cases this treatment tends to

accelerate the cour e of the disease

The author material in ludes sev niv two cases in which radon implants were used and the glandular metastases were removed surgically or irradiated with the roentgen rays or radium or both period of ob ervation ranged from a few months to the years Twenty four (33 3 per cent) of the pat ents were cured eighteen (2) per cent) showed marked improvement eleven (15 per cent) showed some improvement eventeer (24 per cent) showed no change and two died. Of the twenty-eight pa tients who were treated more than three years also 25 b r cent were definitel cured. To prevent a severe reaction, the condition of the mouth should be improved as much as possible (carrous teeth) be fore the treatment 1 begun Large do es of irradia tion are not indicated. The thickness of the wall of the platinum needle should not be less than o 5

Treatment of the clandular metasta es is very diff cult. In the first stage of metastasis when the gland are not yet palpable treatment is unnecessary Honey r if the patient cannot be kept under constant observation irradiation with radium is advisable. When in the s and stage the glands have become palpable but re still mobile they should be removed surmeally and the operation followed by pradiction with radium. Even when the metastases have invaded the floor of the mo th their surgical removal is advisable as it will improve the enect of radium theraps. In the third stage in which large immobile glands are found operation is useles or even harmful and it i better to ura diate externally from the beginning. In all such ca e the author first removes the glands then in serts radon peedles into the lingual tumor and then completes the treatment b external irrad ation Because of the poor result of surgical treatment he b heves that ultimately radium the apy will be used in all cases of cancer of the tongue

Lzoroup Hotsy (Z)

#### PHARYNX

Raven R W. Pouches of the Pharynx and Œsoph agua with Special Reference to the Embrio logical and Morphological Aspects. E : J

5 fg 1933 XXI 235

Acquired posterior pharingeal di erticula result from increased intrapharvigeal pres are causing prolapse of the mucous membrane. Contribution facto sare loss of elasticity of it emisseles composing the burrer pharingeal constitutions and persistence of contraction of the phancteric portion of the encoparagracia muscle change deplution.

Acquired anterior pharyngeal pouches are very

rare

Congenital pourhes of the eschape are four associated with an ecoshopatorial table 4 et changes in the rate of growth; the cole manufally suprate the traches and eno byte. The result also from imperiest separation of those a trees and from defects in the miscals could be times and from defects in the miscals could be times and from defects in the miscals could be times they are associated with multi-d-drest-plant for the color.

Touches in the portenor wall are ray. The my have their origin in a cist which acquired filter and to the exophages. Acquired pounds in it, a found in a date on with tuberculo. I map he do., the region of the bufuration of the reache. Takes are associated also with obt truttoon in their wire! of the exopolage between the fibers of the examples between the fibers of the examples to the examples of the exophage setting the region of the complicing between the common war when so could be the even to have the common war when

In animals natural pharyngeal pouches are common pathological pharyngeal pouches at rate and pathological enophageal pouches are common pathological enophageal enophageal enophageal pouches are common pathological enophageal enoph

Linck A The Paratonsillar Abscass and the Abscass Torsillectomy—Whikler & Operation (Die parat asillaeren Al cesse und die Absca-Tor illekt mie—Whiklersche Operato \ Zickt f H I = x Heidt 1933 xxxx 22

Formerly paratonsular abscesses wet tree disa rule by simple incision. The use of fonsucedowr (Winkler Levinger) at first found for advoctive (Winkler Levinger) at first found for advoctive flower or when it was learned that parato shiabsces i only one manifestation of a dosete copies due to an intrations,life rause opin ossichage. Among others Hofer Mathé and Luck favoritonsillection. To delsa this operation mild at the incised abscess has healted is without justication as even reputered absces es following, other and smus suppuration are operated upon radica-times.

The operation of abytess tonsillectomy is same and requires little time. The and thetic proces to (conduction and local anæsthe a) ; ea er to learn and carry out than is generally as urned therese tonsillectomy is of advantage because it rem es the entire disease it discloses any small hidden abscesses that may be present the wound conditions are simple increasing danger of inflammat on and harmorrhage : el minated and the operation can be performed without delay for ripening of the abscess The incision treatment is disad antagrous because of technical difficulties in discovering the aboveand keeping the wound open the necessary for re peated i cis ons and the facts that men on is posible onl when the abstes, is distinct and large and is only a partial treatment which as a rule mi tie folioned b a secondary tonsillectoms. The da res in addition t the gener I operat ve da era which a e suppo ed to be as ociated with primare touch lectorn are postoperati e exacerbation and sees Howe er pra tical experience has shown that there t danger only in an unsuitable operation t err ary squeezing of the soft parts and improved

induced local aniesthesia. The opening up of the lymph channels in phlegmonous tissue is not to be feared as the disease focus is removed radically and no unfavorable conditions of drainage are left behind. The is not true of inci ions.

The author found his view correct in over 200 cases treated in his clinic The results in these cases were very good Although there was progress of the condition in an occasional case this was due not to the operation but to the neglect of the suppuration which had already occurred at the time of the operation Therefore the operation should be done early The objection that it is especially painful (Tonndorff) 1 not alid Moreover repeated in cisions and a secondary tonsillectomy in cicatricial tissue are much mo e painful According to expe ri nce the possibility of primary or secondary hemorrhage is very slight and then hamorrhage occurs it can be controlled much more easily in the clean wound conditions of tonsillectomy than in those associated with inci ion. After incision tam ponade particularly appears to be langerous and al o painful According to our present knowledge it i evident that we must remove not only an abscess but also the simultaneously exiting cause of the disease Inc. ion will all ays be a partial treatment as it leaves behind a focus which may produce recurrences The demand for a secondary tonsillectomy arose from the radual increase of knowledge of the disease picture as a whole. As the primary radical operation has now been proved more advantageous and b rmles the 2 stage pro cedure is no longer and cated. The author cannot substantiate the reports on the benign course of peritons llitis (El aesser) The statistics are limited to the simple favorable cases. The abscess should be regarded only as a stage in the course of the d sea e As a rule the recurrences are not con sidered Even when an abscess runs a favorable course after incis in there always remains the ques tion What will come ne t? As no one can answer this q estion tre tment by primary absc ss ton sillectomy 1 greatly to be preferred

E \\ 1 Ms (Z)

### NECK

Frankenberg B Operati e Therapy of Extensive Cicatric al Contractures of the Neck (Oper u B h dl n g d h t Na benk trakt e des H is) \ ch A ch p:

The author's method of operating for the relief of the tricial contractures of the neck is based on the anatomicophysiological peculiarities of the neck and the elasticative of the skin of the neck region. As is well known the elasticative of the skin of the neck, is well known to the contractural to the furnows of greatest is a diction vertical to the furnows of greatest is as a carriarial ties extends only as a far of the neck and the neck and the neck and the neck and elasticative of the skin. Accordingly a physicio operation must construct of the skin. Accordingly a physicio operation on the neck requires

r Removal of the cicatricial tissues and plastic replacement of these tissues with normal skin in the upper part of the neck, above the cricoid cartilage Below the level use may be made of the cicatricial tissues.

A scar line which will be transverse in the upper half of the cervical region vertical or even oblique toward the midline spreading fan like from the two mastoid processe and converging toward the jugulum stern in the lower half.

Tor healing of the chief woudsurface any preference method more than the plastic operation of letter method more than the plastic operation after the burn. Are act plan of operation must be worked out beforehand. The skin of the neck and of the adjourning regions which is to be useful for the plastic substitution should be carefully tested as to its elasticity by means of plaption. The sense of form should be as highly developed in the plastic surgeon as in the sculptor.

In the technique used by the author the creatricial area is first dis ceted loos the dissection being begun at the topmost part in the neck. Care is taken to leave the flap attached below by a wide pedicle. By this procedure complete mobility of the head and neck is attained. The next step consists in covering the lower half of the neck partly by means of skin drawn over from neighboring regions and fixed by strong all, sutures and partly by means of second and the strong all, sutures and partly by means of necessarily and the strong all, sutures and partly by means of necessarily of the strong all, sutures and partly by means of necessarily of the strong all, sutures and partly by means of necessarily of the strong and the strong

The author has performed this operation in ten cases with good cosmetic and functional results. Three of the cases are reported in detail. The article contains twenty one sketches and photographs

G Aurov (Z)

Anderson A B Harington C R and Murray Lyon D The Use of 3 5 D1 Iodothyronine in the Treatment of Myxod ma Lo cct 933 ccx 08

The substance 3 5 di iodothy ronine i readily pre pared in a state of purity by a synthetic method and is stable. It is easily standardized and does not undergo deterioration when sto ed. In six cases of high grade my tordema in a high it was administered in doses of from 50 to 75 mgm d ily it was found capable of relieving the symptoms. The metabolic rate was restored to the normal level and maintain d at that level without the production of toxic symp toms. As a rule there was a considerable loss of weight and the pulse rate increased from the sixties into the seventies. The elect ocardiograms were very similar to those produced by the daily adminis tration of 1 mgm of thyroxin The authors express the hope that 3 5 di iodothyronine will prove a aluable substitute for thyroid

M HE B TB REER MD

Weller C V Hepatic Pathologs in Exophthalmic Colter 1 1 1 31 8 1931 11 543

The author refers to several reports by others on the occurrence of saundice in conjunction with hy perthy roidism In most of the cases the jaun lice was attributed directly to the thyroid intoxication and occurred as a terminal condition after long du

ration of the hyperthyroidism

In studies of hepatic function in exophthalmic gotter carried out by the author and others impair ment of liver function was demonstrated definitely While as a rule there was no apparent relationship between the degree of functional impairment of the liver and the basal metabolic rate the known dura tion of the disease or the percentage of weight lost in individual ca es the function of the liver cell seemed to improved as the basal metabolic rate returned to normal

The author reviews the evidence of others which indicated a change in liver function in animals to which thyroid substance or thyroxin had been

administered

The structural changes in the liver which have been found at autops) in clinical cases of hyper thyroidism and in experimental investigations showed fatty degeneration and necrosis with rela tively more fibrosi and lymphocytic infiltration than bile-duct proliferation Because of the patchy character of these le sons Weller describes the con dition as a patchy chronic parenchymatous inter

lobular hepatitis

Since chronic hepatitis particularly of a mild type is occasionally found in the absence of a known cause in patients who have not had Graves di ease it became necessary in the author's investigation to establish a further control of the selected material This was don by determining the incidence of chronic hepatiti in patients of the same sex and approximately the same age who had been free from conditions known to produce patholomical chan es in the liver and also free from Graves disease. The findings in the two series of ca es were as follows

Graves C tr I 8¢ G titis chropic hep titis Đ 33 ıó Slight ch onic h p titi Hell m ried ch nic her atitis Total

The difference in the occurrence of hepatitis in the two erres seems to indicate that the occurrence of chroni interlobular hepatitis of the type described in asso lation with Gra es di ease has a definite NORMAN C BULLOCK M D significance

Jung A The Surgery of the Parathero ds II Hyperparathyroid sm and Its Surgical Treat ment (La chirurgi des parath roldes II L by perparath) r idism t s n trait me t chirur ica e) 1933 xlu 529 I de h

The symptom of hyperparathyroidism are (1) hypercal armia (2) an increased content of ealcium in the urine (1) hypophosphaturia (4) a decrease in the serum phosphorus (5) decalcincation of the bones (6) muscular hypotonia and ( ) neuromu cular hypo-escutability Hypernaratha ror hism with typical chemical changes in the blood hile and urine skeletal changes a thema d gestive disturbances and increased coagulability of the blood may be produced experimentally by the injection of a potent parathyroid extract. The author discus es the effect of removal of parathyroid adenomata removal of apparently normal para thyroid glands and resection of the arteries in cases showing evidence of hyperparathyroidism three have a beneficial effect on the symptoms

The following clim al syndromes are associated

with hypernarathy roidson

I The osteitis fibrocystica of you Reckling hausen The author has obtained statistics on sixty cases seen in the period from 1021 to 1011 2 Severe polyarthritis and chronic theumatism

In the majority of eights six cases operation yielded good results

3 Saget s disease

4 Scleroderma 5 O teomalacia

6 Less clearly defined conditions such as Base dows disease keloids disturbances of callus for mation and obliterating endartentis

In some of these conditions parathyroid resection or ligation of the arteries has proved of value

The author gives a detailed description of the technique of parathyroidectomy and arterial resec-MARSH W POOLS M D

Heaf F R G The Prognosis of Tuberculous Larynaltis B at M J 933 # 960

Larvingeal tuberculosis is always secondary to pulmonary tuberculosis Improvement of the pulmonary p ocess t usually followed by improvement of the latyngeal lesion. However an increase of the pulmonary process does not necessarily mean that there will be an increase of the process in the larvax.

The chief factors influencing the prognosis in larrangeal tuberculosis are (1) the type of les o (2) the patient's resistance and (3) the patient's

habits and temperament

ī

Laryngeal lesions are of the following 4 types (e) extrinsic (2) intrinsic (3) localized and (4) lupord Those of each type may be subdivided into the the ative and the non ulcerati e Of the first type of larvngeal lesions are the art te

noid-epiglottic cases with mas 1 e infiltration cedema of the ep glottis and pyriform swelling of the aryte The prognosis of these ca es is very unf vor nord able Us to the age of thurty years it is hopeless. After the age of forty years the response to treat ment is a iderate but not permanent. The les on is almost alna sulcerati e

Of the second type are cases with infiltration of the socal cords and interarytenoid region prognosis in these cases is better. If the infiltration extends to the arytenoids or the ventricular fold

the possibility of recovery is reduced by about 50 per cent. A symptom of importance in the prog no is is dysphagia.

of the bard type are a number of cases not conforming to either of the first a types. In these the leason is confined to one side of the larynx or there may be a small areas one on either side. A case is placed in this group regardless of the location of the lesion it half of the larynx is clear. Most of the patients do well particularly if no ulceration is present and the lesion is firm.

Of the fourth or Iupoid type of laryngeal lessons are the cases of granular papillary and smooth tuber ulomata. These lessons rarely cause symptoms They respond favorably to treatment and have little millence on the general prognosis

The most frequent order of involvement is the aptenoid the interarytenoid fold the vocal cords the ventricular bands and the epigloitis. The prog most is most favorable when the site of onest is the vocal cord and next most favorable when the site of onest is the interarytenoid region. Localized lenions even when large have a good prognoss if they are firm and finotic Cidena identation and offer the site of the

Resistance is determined by the patient s hi torv the onset the family history and the type of the pulmonary le 10n in addition to the condition of the blood. The latter is considered to be of the greatest importance. The combination of a rapid sedimenta tion rate a high monocyte count a low lymphocyte count and a low eosmophile count which shows no tendency to change under general sanitarium régime means poor resistance. As long as this blood pic ture persists the laryngeal lesion will not improve The type of pulmonary lesion gives some indication of the patient's reaction to infection. The more fibrotic the pulmonary lesion the les the likelihood that the larvngeal lesion is severe. An acute evuda tive pulmonary lesion is often associated with an acute ædematous laryngeal lesion which rapidly ulcerates Fibrotic pulmonary lesions are accom panied by benign slowly progre sive laryngeal lessons which respond rapidly to treatment Since the incidence of fibrotic lesions is high in patients over the age of forty years tuberculous laryngitis

at that age is most commonly of the beingst type Habits and temperament inducence the prognosis because they often determine the extent of the patients to operation in the treatment of the condition. In cases with concurrent disease such as dia bettes and syphilis the prognosis should be guarded Pulmonary lessons leading to fibrosis render the prognosis more favorable. Pregnancy has a senous effect in the early months of laryngeal involvement

The article contains tables based on a study of 110 cases of lary ngeal tuberculosis

ARTHUR S W TOUROFF M D

### SURGERY OF THE NERVOUS SYSTEM

### ERAIN AND ITS COVERINGS CRANIAL TERTES

Hright, L. T., Greene, J J., and Smith, D H. The Dischools and Trestment of Fractured Shulls. A ck Surg 1933 revi. 8 S.

The arthors di cuss craigal injuries on the basis of an analyst of 34 cases treated on a transmane service during a period of one and a half re-rs They are an I ned to farer the recen tendency to tres such ingraes largery with rest, man, enance of n'truon, and sedauve drugs. They do not and one I the use of hypertonic dextrose almon, delivera tion or drainer of the cereb or neal find. LED M. D. TEXATE M. D.

Lenormant, C., Werthermer P., and Patel, J Immediate Treatment of Fractures of the Base of the Skull (Transmitt immediat des fractures de la bas. du cra...e) J de à 1931 xill. 5 3

This authors first discuss the various seem in of iracture of the base of the skull-bony leaons, lesuns involving the memores and brain, and read tions of vasomo or origin. The cerebral vessels are considered to have vasomotor coutrol and to react to traumatism in the same way as other ressels o th body react to cerebral tra .ma.

In experiments on does a seache and with m plane the authors studied in exects of extra arel. subfural, and in taventmenta, meethons and the

merh asm of blocking of the now of cerebrowing I md. The following therepertit measures are cound

t Treatment of menuro-encephalic lesson. (a) extradutal and sub ural extravasations, (b) intra

reselval hamouhage and contusions.

ered

Treatment of intracranial hypertension od, (b) rentricular and lumber puncture (c) the use of hypertonic solutions.

Treatment of hypotenaon of the cere rospinal mand by the a pection of distilled water or normal

The treatment is discussed with remion to two penods-th fi t twenty four hours and the Lert two or three days

The physical reactions to be waighed for are (1) changes in the pulse 2) restiratory dimenty (3) elevation of the temperature (4) bynonemon or hypertension of the perebroshinal third (as deter

mined with a manometer () changes in arterial pressure, and (6) ocues changes. In th diagnosis of blockage of the spinal fluid th Queckenstent " on key procedure is of aid. VALLE IT POTEL VID

Quensel, F Th Sequela of Head Incomes and Their Treatment Leber di . und .... der Emilverletzuaren und ihr B.han. TO I D. I AL

Lane rest to we a thes, which are usually one הים שיבות מצול בם מנום שמשל משום לביש לבים בחל correspond the severe famount destribute and שונות ליבוד בינות בינו differlies it maior mist be dieded to the ture of the ressea, nerves and arrepresental and משלפות ב בלונטים ס בל ביית בייתר מו לה ליצים itsed Out knowled of the nach a most and our and physic gya man a very merient and a mel experiments in this branch of study have no morel a satisfactory where a Therefore an exact knowl eder of the drails of th a mar an the few store. toms a of the grea er morance. The a thir anger's a let of questions to aid the resonance who mer Sees the transfer and the

A cartion, early lumbar runcture which a the same time is of therenering we are, should be don-Examination of the core proposal find from all standuous a reversionation. Poetamenerars of th And Arad or made as earl a pressur. On privaces classification of brain training \_ 0 mo-dies not ermi primatic conduites he her does the direction of the minil period of montesqueness based on the dz sauction of concussion of the error and train and diffuse comprision of the brand oter are bass for prognos. Sometimes in most servere brau ... mes remau without termine. On the caber han it frequently harrien that a patient with an injury of the head who is disthermed from surposi care a..e a comparatively short pen d of treatment returns to the neprolymst at the end of a

few weeks with sever with ones. If we deserved such gross describe ces a menugits and assess there still miss to sero a which a a while are desimated by the term "traumatic enter bloosiby" According to Fost s er thes may be subdit at ... o rasmalties, men propathies, and enorphalmathies, but in the the soprior this care source s associated with the danger of emphasizing too of only the organicharacter of the more and discovering the ten tional disturbances If deme e f cal symptom are meent, th damous does not present any gree discutt The bor Land he deer som to be less obrast p \_\_ of damos & armyom of a are to the oom tal region or the cerevellem he mentions disturbances of emilbrum, hyporotia and disturbances of co-ordination, direction, and pointing. Injury to the corrus restnorme is man lered by a ern rom consent of mile erd disturbance of vision, a positive Romberg test, a ten

ency to swerve to one side when walking and die fettive hearing Disturbances of an endocrine na ture should be watched for in every case of brain injury In ajunes to the floor of the third ventricel they may occur without unjury to the hijophysis Closelv related to them are the strate and pallidal parkinsonian phenomena. Tully develog et train matte epileps is well known on the whole. However there remain cases which are difficult to disparticely to the contract of the contract of the contraction of the contract of the contract of the name of the frontal lobe changes of personality are the most prominent symptom. As a rule these injuries cause not a generaliz d change in the intellectual sphere but single defects.

The author considers the development of true complex psychoses from head injurie to be at I ast doubtful and at any rate very rare. In contrast organic brain injuries are followed by a large num ber of functional disturbances Persons with uch injurie frequently suffer from headaches dizziness nausea flushing sweating and over sensitivity to the stooping posture exertion excitement alcohol and nicotine. The diagnosis is difficult. Today encephalography gives additional information in some of these cases. However, the interpretation of the encephalogram is still very often incorrect \ \ care ful general examination of the patient is indispens able in order to rule out brain disease from other causes (arteriosclerosis lues) The blood picture and the determination of the rate of sedimentation of the blood corpuscles are of the greatest importance for the diagnosis of brain abscess

In conclusion Quensel touches briefly upon the therapy situating that in late sequelæ of brain in junes treatment is extremely restricted. He warm sejanst too frequent punctures and too long continued injections of hypertonic solutions. For the relief of chronic increased intracranial pressure due to meningitis serosa pseudotumor and hydrocephalisis internus be prefers fene tration of the membrana atlanto occipitalis. Depressed bones which produce symptoms of pressure should be removed early. In discussing the operative treatment of epilepsy Quensel refers to the extensive monograph of Krause. He says that for most cases the neurologic act conservative symptomic methods of treatment.

Blum E Fapert Opinion on Inju ies of tie Brain and Skull (Zu Beg tachtung on H m und Scha delt a m ) She med H cl 1 933 n 740

II MANDEL (Z)

are still to be considered

The insured patient and the patient seeking dam ages often folds himself on examination on the defen is toward the ph secan. This state of affairs is to be deploted as it is re-possible for the law that the state of the contract of the co

put to the expert in cases of injury of the brain and skull are 1 Do you believe that the complaints and symptoms are organogenic or psychogenic<sup>2</sup> 2 What is the degree of working ability?

The author calls attention to the confusion in the hterature with regard to the concept of neurosis In cases of brain injury the ability to work is par ticularly difficult to estimate If possible it should be given in percentages. The determination of the ratio of organic psychogenic components in the condition is also especially difficult in injuries of the brain. As every practitioner must make this de ci ion in his consultations it must be attempted in cases of brain injury as well as other lesions Expert opinion is a psychological as well as a neurological diagnostic procedure. It must be based on the patient s personality as a whole before and after the injury Of great importance are the psychic con dition at the time of the accident and the mental state referable to the trauma. In the organic sequelæ and residual disturbances of brain injuries the neurological investigations for diagnosis and differential diagnosis are less difficult than the in terpretation of the psychic symptoms

The organopsychic symptoms may be classifed as follows (1) disturbances of the personabity as a whole (2) emotional disturbances (3) disturbances of industurbances (3) disturbances of the sympathetic nervous system. For the first and second groups belong dimunution of general functional efficiency loss of the psychic tempo changes in character and emotional instability. In the third group are disturbances of perception such as slowing up of conception and loss of the power of mental concentration. In the fourth group belongs the vasomotor neurastheme syndrome in addition to which there is also a non traumatic vasomotor neurosis (5) mapathetic neurosis?

The differential diagnosis must be based chiefly on the history 'a valuable addition to the psychological methods of examination will be found in the Rorschach interpretation of form test in the examination of the patient with cerebral trauma if an association experiment is to be included.

In the next part of the article the author reports some of the cases in which he was asked for an expert opinion

He first cites nine cases of fracture of the convexity of the skull in which healing had occurred by the end of four months but the symptoms persisted for over a year. Three patients had neurotic symptoms. The author states that in ca es of skull fracture in contrast to cases of concussion of the brain conclusions as to these servity of the general condition may some as to the set entity of the general condition may be considered to the contract of the contraction of the contraction

Of ten patients with fracture of the base of the skull three showed signs of organic dementia after one or two years Encephalosis occurred in five and contu on of the bra n in one Of two patients with a neurosis one showed aggravation of the condition Only one patient was without prolonged symptoms Six cases of compression of the brain presented most varying pictures. In two cases there were symptoms of contusion and in four these were com bined with a diffuse encephalosis. Half of the cases were complicated by neurotic manifestations. There was one case of compression with the subsequent development of a neurosis Of thirteen cases of contusion of the brain four presented cerebellar manifestations three symptoms of involvement of the frontal lobe and six symptoms of involvement of the cerebral cortex There were two cases of mild jacksonian epilepsy a case of contusion of the cerebellum and twenty two cases of concuss on of the brain. For the later judgment of cases of concussion and its sequelæ the report of the physician first seeing the patient is of great importance. The factors involved in the loss of consciousness are still undetermined

According to the author's material the patients were restored to health after from three to sum months. Of the twenty two cases of accident a neurous was observed in eleven. With one exceeding the neurous was observed in eleven. With one exceeding the particular than the control of the cont

The author recognizes in neurosis an easily recognized or of coarse which is manifested by reactions like other disease processes. In some cases without s bectage the patient to social stigms. In the management and judgment of these conditions the attitude of the physician toward the patient to social battent is most decisive.

In conclusion the author states that as a rule patients with cerebral trauma are not kept in bed long enough

Schweizer (Z)

Ersner M. S. and Myers D. An Aid to the Interpretation of Intracranual Complications Resulting from Venous Circulatory D. turbance of the Temporal Bone Offered by Y. Ray of the Lateral Sunus and Jugular Foramen. Logges

It is well known that venous circulatory disturbances of ottic origin produce intracranal pre sure changes. It has been observed also that menngeal symptoms will be manifested under these conditions. The latter depend on the severity of the infection the type of the temporal and mastend bone and the state of the venous circulation.

\tay examination of the mastoid p occess alone is not sufficient in these cases A complete study of the temporal bone including the mastoid process the petron the vascular structures and the jugular foramina should be made

Three per cent of skulls show an extremely small ugular foramen on one side. The lateral sinus of the

same side is always smaller and may be completely absent. In 89 per cent of skulls the right lateral sinus is larger than the left. In some however, the left lateral sinus is larger than the right.

The ratio of involvement of the right lateral sinus to involvement of the left lateral sinus is 1 ?

The lateral sinus may be completely absent This has been demonstrated by pre-operative 1 ray ex

The presence of a large emissary vein may indicate absence of the lateral sinus a small lateral sinus or a thrombus obstructing the lateral sinus

souls of a thiologo sustracting the Interest sinus Anomalies of the souses and jugular foramen are common. When the crutalition is adequate in the presented a such anomalies there are no symptoms presented as the such as the sustained symptoms de velop. Changes in termos is stated as ymptoms de velop. Changes in the sustained as ymptoms of velop. Changes in the sustained as the contract velop. Changes in the sustained in the contract velop. The present the contract is velop. The present the contract is large to the temporary that we have the contract that we have the contract and the contract that the contract we have the contract that the contract that the contract the contract that the contract the contract that the contract that the contract that the contract the c

A careful correlation of the N ray find ngs with the clinical and operative findings so of great help in the prognosis and treatment of othic complications. A stormy course may be expected when their as demonstrable difference in the size of the lateral sameses and when the larger side is involved. When the infection occurs on the smaller side the prognosis more favorable as resolution is more apt to occur.

to 25 per cent of the cases. If papilities is absent the circulation may be considered adequate Inade quacy of the venous circulation with a papilities and a choked disk, indicates increased intracranual pressure requiring immediate measures for its reduction. The author 5 g est that the Gradenipo syndomial may be explained in part by a venous disturbance

Sagradon P A Physiological and Pathological

Study of Spasm of the Sylvian Vessels (Les p ms a cular e vl ns Etud phy l grq et pathol grqu ) Thèse de Marseille Ab t by Olm Pes méd P 933 li 6

From his hi tological researches Sarradon concludes that the innervation of the pial vessels can be well demonstrated but that the intracram I vascular herves cannot be so well impregnated by the methods available.

Following a review of the physiology of the cere product culture he discusses the physiopathology of spasms of the sylvian vessels. With regard to the latter there are two theories. According to one theory, the contractions are caused by the musical fiber of the cell walls whereas according to the other they depend upon the vasomotor innervation. In the cl untal part of this them Sarradon considers

the symptomatic forms of svi an vascular spasm whi hare manifested by motor sensory and speech defects

Hie He Ev M D De Martel T Guillaume J and Panet Raymond Ventriculography Technique Results and Indications (La e triculog aphie t chinqu re sultats indications) P siemed Par 1933 xli 834

The authors describe in detail the technique of ventriculography used by them With the patient in the prone position the head supported on an out meger as for a suboccipital craniotomy they make trenhine holes 2 cm to either side of the midline and t cm above the external occupital protuberance After cannulation of the ventricles the patient is reversed with the head held against the cerebellar head rest by supportive slings so that the occiput and cannulæ are beneath By this means the replace ment of the fluid by air 1 aided by gravity pressure is carefully measured by means of an aperoid manometer which is connected at all times to the syringe

The characteristic ventriculograms obtained in cases of tumor in the temporoparietal region frontal region occipital region temporal region sphenoidal region sellar region and posterior lossa are next discussed

The authors consider ventriculography not only an aid in the establishment of the diagnosis of clin ically unlocalizable or latent neoplasms but also a precision aid in the determination of the size and location of clinically localizable lesions ventriculograph es there were 4 deaths. The authors believe that neurologists are more and more fre quently considering ventriculography as an indispensable complement to clinical examination

HALE HAVES M D Rogers L Associated Facial and Intracranial

Hæmanglomata B / J S rg 013 x 20 The author reports a case of extensive extradural and intradural communicating plexiform arteriove nous anastomoses occurring on the same side as a very large cap llary nævus of the face and forehead The patient was a boy of eight years who had been subject to convulsive seizures for seven years fits were characterized by loss of consciousness last ing two or three minutes and followed by paralysis of the left side which sometimes persisted for three days

Roentgenograms of the skull showed an area of calc fication in the right frontoparietal region. Be cause of the attacks of convulsions followed by transitory hemipleg a and the presence of the facial navus a tentative d'agnosis of partly calcifed hamatoma was made

The formation of a right frontoparietal bone flap disclosed an almond sized extradural plexiform an gioma. When the dura was reflected and all com mun cating vessels were clipped the frontal lobe as found to be covered with fine anastomosing ves sels. The lesion was apparently a serpentine arterial

angioma instead of the more common venous variety associated with facial næva

Two fits occurred after the operation but they vere not so severe as those which occurred previ

Yout two months after the first operation the right internal carotid arters was tied for further interruption of the blood flow through the lesion Definite improvement followed the patient becom ing able to return to school and lead a normal life Since the second operation he has had several fits but they were mild and not followed by hemiplegia ROBERT ZOLLINGE M D

Hausman L and Stevenson L Astrocytoma of the Cerebellum Survival Period of Forty Five Ps3 h at 1933 X

The most striking chinical features of the case re ported by the authors were (1) the duration of survival without surgical intervention (2) the acute onset (a) the paucity of neurological signs despite their presence at the beginning (4) the long period of relief from symptoms and (5) the attacks of col lapse in the terminal stages which were probably due to medullary compression

The slow advance of the symptoms interrupted by long intervals during which the patient was comparatively free from symptoms is typical of astro cytoma of the cerebellum

The fact that the patient was not operated upon raises the question whether he would have done as well or better if surgical intervention had been at NORMAN C BULLOCK M D tempted

Odasso A and Volante F **Pachymeningitis** Interna Hæmorrhagica of Traumatic Origin (Sull p chime ingite interna emorra ica di ori ine traumatic ) A ch ! l di ch 1933 XXXIV 676

The authors report in detail a case of pachymenin gitis interna hæmorrhagica with a large hæmatoma of the dura mater in a boy sixteen years of age who sustained an injury of the head. The injury was apparently a simple concussion as there vas only temporary loss of consciousness and recovery seemed complete Several months later mild headaches be gan One day while in the country the boy jumped across a ditch When he landed on the other side he stood erect for a few moments and then fell to the ground unconscious. Thereafter his condition be came progressively worse with deepening coma in continence of urine and faces and periods of quiet and stupor alternating with periods of excitement and incoordinate movements of the extremities There i as no paralisis evidence of external injury to the head or roent; enographic e adence of frac ture Spinal puncture yielded a normal clear spinal

lutopsy disclosed a large hæmatoma in the left dura pressing upon the bain. The hæmorrhage seemed to be within the dura itself. Histological examination was made of the dura in many different representative portions. The changes were almost exclusively in the inner layer of the dura especially in the capillary layer of Jores where there was con siderable hamorrhage with moderate cedema and evidences of fibros: There were no apparent signs of vascular or toxic inflammation. The external layer of the dura the leptomeninges and the cere brum were essentially unchanged.

The differentiation of this relate ely infrequent condition due to trauma from the pontaneous variety is not easy. The history of a definite trauma is important. From the histological point of view the traumatic variety has a tendency to heal with fibrous changes whereas the spontaneous variety tends to be progree use.

Th "pathogeness of the condution is probably determined by inputure of its superior pair between the test where they open into the sagittal sinus followed by organization of the extravastard blood and abun dant connective tissue proliferation. The newly formed vessels of the capillary layer of fores may themselves be the cause of successive hierorrhaps which often prolong or aggravate the condution until death results. The authors before et that the original homorrhaps coccurs not on the inner surface of the dura but within the substance of the dura causing discoation of the intransis structure of the dura.

The ordinarily serious prognoss may be modified only by timels surjust intervention. Because of the frequently widespread distribution of the hamor rhages which at times may be bilateral multiple exploratory, trephine opening have been suggested. However if the hamatoma is well localized a large bone flap exploration is best. A Lours Row. M.D.

Bernstein S A. The Relation of Endothehoma of the Burat ot he Skull Bones from the Surgical Standpoint (Lieber d'e Bezehung des Dura doth homs 21m Schaed Ilm chen om churu g chen Standp akt) 4r & f & C& 1933 clax 038

Of all cases of accessible intracranal tumors the best results are obtained in those of endothebioms of the dura as this neoplasm is not a true brain tumor and while the pressure it produces is often very great pressure: i usually the only effect it certs on the brain aubstrace. In favorable cases an endothebioma can be removed without injury to the brain. However against this advantage there is the improvide disadvantage of the inflittance growth of the tumor into the bones of the shull

From the morphological viewpoint the au horpoints out that the tumor proceeding from the day agrows into the bone through the vascular canals and then spreads out flat. Therefore the tabula internais the clened first and the diploe and tabula externaare not involved until later. The inner surface of the bone often becomes thickened with nodules a process noted by Cushing and called the approxity of the control of the tumor and can be seen and the rotestign putture. On the whole to-engine examination gives more important and than neurological examination.

In ix of the author's twelve cases the tumor masses extended into the neighboring bone its us in the manner described and in one it infiltrated the prain Occasionally the tumor grows into the

pituitary gland or metastasizes into the lungs or carotid gland On the basis of the theory that a tumor which extends beyond the organ originally attacked and grows into a neighboring organ must be regarded as malignant endotheliomata of the dura have a malignant character. Howe er not all endothehomata of the dura infiltrate neighboring tissues some of them may remain benign and only compress the brain masses. When once the turnor has made its way into the interes cous tissue it must be operated upon radically Mthough there are cases in which a partial operation performed be cause of a mistaken diagnosis or necessitated by such factors as proximity of the tumor to the sacittal sinus was followed by a good result lasting for years a partial operation is usually inadvisable

The danger of unsuitable therapy is increased by the confusion that has arisen in the terminology and conception of malignant endothetiomata of the dura. The terms ostromal crossous "hyperoto is and intercranial indirection of dural endothetiomater used more or less indiscreminately and couse confusion in the treatment. The surgeon must be prepared to hid that at least every fourth endothetiomate of the dura is indigitant. Statistics show that malignancy is particularly frequent in the comp.

According to the manner of growth two forms of dural endothelioma are di tinguished a nodular and a turf like form These forms differ to a ce tain degree also in the brain symptoms they produce The author has been able to confirm Cushing s ob ervations with respect to them. The proportion between the intracranial and the intra-osseous part may ary considerabl When the surgeon finds himself confronted with a more or les sizable en largement of a cranial bone he should think of primary endotheliotia of the dura as the possible cau e When a dural endothelioma infiltrating bone is incorrectly believed to be a hyperostosis the sur geon u ally endeavors to spare the periosteum in order that bone regeneration may close the operati e defect in the bone a procedure which is dangerous in cases of dural epithelioma

In conclusion the author points out that the thickening of the bone generally observed when the disease process is located on the upper part of the full is much less important in cases of basil maily mant dural endothelioma. Wore often in the latter are sortenghestic thickening without bone thickening the difficulties of diagnosis aref rither increased as the control of the difficulties of diagnosis aref rither increased some as in cases of malignant basil endothelions the only coentrepological sign of in assin of the tumor to osteropists thicken ag. Ritess (2)

### SPINAL CORD AND ITS COVERINGS

André Thomas Sorrel and Sorrel Dejerine Scoli otic Parapiegia (La p rap inte sc li .iq e) Presse méd P 1933 xli 54

As a rule scolioses do not cause symptoms of compression of the cord Before the development of roentgenography it was thought that when scoliosis and spasmodic paraplegia co-existed they were independent conditions or that the paraplegia was caused by Pott s disease In recent years a number of cases have been reported in which the scoliosis itself was

evidently responsible for paraplegia

The authors report the case of a fifteen year-old boy with kyphoscoliosis and paraplegia. Although the parents had noticed the scoliosis only recently it was probably congenital and had become suddenly accentuated in a period of rapid growth. The spasmodic paraplegia had all of the characteristics of a paraplegia from compre sion. The clinical diagnosis of obstruction was confirmed by lumbar puncture and the lipiodol test Roentgenograms excluded Pott a disease Operation showed no other cause for the compression than the malformation of the verte At the level of the sixth and seventh dorsal vertebræ there was a sharp backward angle over which the spinal cord was stretched The cord was held firmly against the vertebra by the left roots which were stretched by the rotation of the spinal column so that the dura mater was stretched tightly over the cord The blood vessels and lymphatics were compressed as well as the cord and the result ing interference with the blood and Is mph circulation played an important part in the production of changes found on histological examination. Simple laminectomy without opening of the dura mater did not prevent further development of the condition and the boy d cd a little over three months after his admission to the hospital

The authors discuss a number of similar cases reported in the literature Except in Payr's case in which cure was brought about by resection of the angulation the treatment consisted in simple lami nectoms or laminectoms followed by opening of the dura The best results were obtained by laminer tomy and opening of the dura without suffice

Knoflach I G Paraplegia in a Case of Lympho granulomato is (Paraplezi b Lympho ranulom at se) D i h Zi ch f Ch 933 c 1 382

AUDREY GOS MORGAN M D

The author reports the case of an otherwie healthy laborer twenty six years old in whom local ized pains in the upper thoracic section of the spine and subsequent weakness in the lem were followed in the course of three months by complete para plegia with paralys s of the bladder and rectum

The cause of the disturbance (to be sought in the upper thoracic spinal cord) was not explained until enlargement of the cervical gland developed Pathologico anatomical e amination disclo ed lym phogranulomatosis The damage to the cord pre ceded the manifestations of general zed lymphogranul mate is Autopsy revealed compression of the cord by lymphoriatous tissue lying within the pinal canal but outs de the dura Histological changes similar in appearance to the limbogr nulomatous plaque in the so nal canal but not related to it were found in four of the thoracic vertebræ The medullary cavities of these vertebræ were almost entirely filled with connective tissues in which the typical foci were found. Although there was evidence of both bone destruction and the forma tion of new trabeculæ these vertebræ did not differ in their structure or size from the normal adjacent vertebra. Even the roentgen picture failed to dis close any difference between the normal and the diseased vertebræ Thi is explained by the fact that the density of the shadow of granuloma tissue and of normal bone marrow is practically the same. In this case as is the general rule no result was obtained by treatment by irradiation

The article contains photographs photomicro graphs and a bibliography RUEDEL (Z)

#### PERIPHERAL NERVES

Dogliotti 4 M Experiments With Regard to ti e Numerical Increase and the Distribution of Nerve Fibers in Regenerating Nerves (1 penen e ulla mod i ta di ne h mento numeric distrib z e d lle fibre nero e nei nero in ngen erain) A h told chi 1933 xxxi

Dogliotti describes experiments which he carried out on dogs. In one group, the sciatic nerve was sectioned on one side in such a way that the cent al cut end was divided into two unequal parts. The greater part was then fixed ubcutaneously and the smaller part sutured to the peripheral cut end of the nerve. After seven and fourteen months the animals were sacrificed their muscular development was studied by weighing and histological examination and the process of regeneration of the nerves was studied especially with regard to the invelinated fibers in the undivided cratic nerve the central cut end and the peripheral stump. In a second group of experiments all of the corresponding spinal ganglia were removed. By these procedures it was possible to determine the number of sensory and motor fibers in the normal nerve and in the nerve which was regenerating The author's conclusions are sum marized as follows

If from one third to one fifth of the central stump of the sciatic nerve is conserved and sutured to the peripheral stump complete anatomical res toration with perfect muscular function may result

2 The fbers in the tracts of the central stump may increase to double their original number or even more and in all of the bundles of the peripheral portion there may be a large number of regenerated tibers distributed homogeneously and uniformly throughout the peripheral stump in such a way as to produce a perfect functional equ librium in all of the muscles suppled by the nerve

3 The motor fibers in the sciatic nerve constitute about one third and the sensory fibers two third of the total number of myel nated f bers and the motor f bers show a greater regenerative power than the sensory fibers

4 With the restoration of innervation the para lyzed muscles assume a size about equal to that of the muscles on the side not operated upon even though their number of regenerated nerve fibers is considerably below normal. In the muscles thus restored to function the muscle fibers are of a considerably larger caliber than those of the muscles on the side not operated upon Accordingly there is a compensatory hypertrophy of the regenerated fibers which serves to counterbalance the loss of the fibers which have not regenerated

5 In the spinal cord (cells of the anterior horn) there cannot be found as late as twenty one months after the operation any definite signs of cellular atrophy or hypertrophy either in the cells which correspond to the regenerated and hypofunctioning fibers or in those corresponding to the sectioned fibers which have regenerated (portion of the stump fixed under the skin)

6 In selected cases treated with extreme care one may hope to increase the number of fibers in a partly paralyzed nerve by sectioning the nerve transversely and immediately suturing it. This in crease will be due to the multiplication of regenerat ing fibers in the proximal portion. At the same time it may be possible to obtain a more homogeneous di tribution of the regenerating fibers as the fibers will distribute themselves in the peripheral portion almost uniformly without regard to the previous topography of the bundles

In a clinical case in which neurotomy and suture of the scratic nerve were done for serious sequelæ of infantile paralysi there was marked regeneration of the nerve fibers followed by a definite increase of the

function of the muscles supplied by it

EUGENE T LEDDY M D

### SURGERY OF THE CHEST

### CHEST WALL AND BREAST

Hedblom C A Tumors of tle Bony Chest Wall Ant S rg 1933 XCVH 52S

The author's findings in an analysi of 313 cases of tumors of the bony chest wall including 22 cases of his own and his conclusions therefrom are sum marized as follows

I About 17 per cent of the tumors were chon dromata and 5 per cent were benign growths bout of per cent were sarcomata and 13 per cent other malignant neoplasms. Nine were of uncertain type. The nbs were in obed primarily in 80 per cent and the sternum in about 20 per cent.

2 Trauma seems to be an etiological factor in an uncertain proportion of chondromata and in pri mary sarcomata and chondrosarcomata

3 Pain is the most characteristic symptom of both chondromatous and sarromatous tumors. It may develop before a mass is recognizable clinically or roentgenologically

4 Aspiration or biopsy may be necessary to

establish the nature of the tumor

5 Farly radical extirpation offers the best prospect of cure Late operation even in the pres ence of extensive spread of a malignant growth may result in prolonged freedom from recurrence

6 E ploratory thoracotomy may be indicated in cases of doubtful operability

7 Positive pressure anxisthesia largely removes the immed ate risk of open pneumothorax and reinflation of the lung before closure lessens the liability to postoperative respiratory embarrass ment and late pleural complications.

8 Operability can be extended by graded operation

In cases of chondroma a recurrence may de velop after operat on and in cases of sarcoma it is the rule but 1 fe may be made more comfortable and may be greatly prolonged and there is a possibility of cure.

10 In vet of the added safety of radical operation alforded by modern methods increased consideration should be given to radical resection of the chest wall for the relatively frequent local recurrence after amputation of the breast for catcinoma.

Cutler M Benign Lesions of the Female B east Simulating Cancer J i If 1ss 933 c 12 7

The author describes several ben gn lessons of the breast which simulate cancer and discusses the diagons and treatment of some borde hier conditions. Blasma cell mastitis in its earliest stages gives rise to a clinical pictue a simulating that of inflammatory to a clinical pictue or simulating that of inflammatory.

carcinoma. It begins suddenly with pain diffuse thenderness and redness of the skin. The entire breast becomes swollen and the availary lymphatic ingland are calarged and tender. There is susually a rise in the temperature which sometimes is accompanied by a chill Occasionally there is a creamy discharge from the nipple. The most important clinical characteristic differentiating the condition from inflammatory carcinoma is the absence of dermal and subdermal thickness.

The acute symptoms soon subside and the process enters a subactue stage during which the symptoms and signs decrease. When the inflammation subsides their remains a mass which often presents many of the classical clinical signs of carcinoma This mass i solid firm and often adherent to the overlying skin. The overlying skin is dimpled and the nipple somewhat retracted. The tumor mass

tegresses very slowly

The essential microscopic change consists of an active arute and subacute crudative inflammation with numerous leucocytes | mphocytes and plasma cells The exudate is especially marked about the ducts and acini where the cellular reaction may consist almost exclusively of plasma cells Foreign body giant cells are often present. The dilated ducts are filled with desoumanted evoluteial debris

The most important aids in the differential diag nosis between plasma cell mastitis and carcinoma are the acute onset and subsequent clinical course During the initial stage the entire mammary gland is firm indurated and diffusely tender and there is a

moderate fever

During the acute stage conservative treatment is proper. If the course of the disease confirms the diagnosis operation is contra indicated as long as there is discernible clinical impro-enent. If after a period of observation the lesson remains stationary or progresses and the diagnosi-becomes uncertain exploration, operation should be lone.

Traumatic fat necro's which may also simulate carcinoma of inicially is most common during the fourth and nith decades of life. It may or may not be associated with lactitum. There is often a deh can be sufficiently as the sufficient of the mapping of the control of the mapping of the case. Traumation of the mapping of the cases are sufficiently as the disposis as it suggests a hematema rather than a solid tumo?

In cases of single tumor of the breast in women under twenty five years of age it is safest to consider the lesion malignant until it is proved benign

The presence of more than one tumor in one or both breasts immediately throws the weight of evi dence against carcinoma and favors the diagnosis of benign les on The diagnosis lies between multiple fibro-adenomata and multiple cysts. The danger of multiple cysts is far greater than that of multiple abro-adenomata. The operation of choice for multi-

ple custs is local mastectoms

In the cases of older women in whom a hamor thange discharge from the map e is more likely to be associated with duct carrinoms and e-gecally in the presence of nodularity of the presence of nodularity of the complicated by car commit wide sutgreal existence of the case of younger women in whom the presence of younger women in whom the presence probable and to whom the loss of summer women in whom the presence probable and to whom the loss of summer the presence of the pres

Haugensen C D TI e Bases for the Histological Grading of Carcinoma of the Breast 4m J C neer 1033 ut 18

The most confusing factor in the grading of breast cancers has been the choice of histolonical character sixts on which to base the grading. In estimating the grade of anaplas a of adenocarcinoms. Hanse man used the loss of an adenoid arrangement and the number of normal and atypical mitoses as on tens.

From a survey of previous attempts to grade breast carcinomata it is clear that there has been no agreement as to which histological characteristics should be u ed as a basis for grading

In a series of 16; cases of carcinoma of the breast the author made a careful analysis of the promostic significance of 15 histological characteristics. The following 6 characteristics were found to have a probable relationship to the end result of treatment 1 Papillary character origin in a cyst formed in a duct.

Comedo character growth ma nly within the ducts often with central necrosis
 Adenoid arrangement of the cell (a) marked

3 Adenoid arrangement of the cell (2) market (b) slight (c) absent 1 Variation in the size and shape of the nuclei

(a) slight (b) moderate (c) marked
5 Number of mitoses (a) few (b) moderate

number (c) numerous
6 Gelatinous degeneration

O treatmons organization are in fact sum. These against an artist and the sum organily togested for the determination of the grade of naplass According to this plan tumors were arbitrarily classified as of Grade; when they had a apullary or mendo character when the adenoid arrangement of the cells was marked when gebatinous degeneration was present or when variation in the suce and shape of the nuclei was slight and their against a sum of a real throat of the sum of th

of comparatively low malignates, or of Grade; Tumors of Grade 3 h ghis malignant tumors were elected on the basis of only 3 characters useabsence of an adenoid arrangement (1c) marked variation in the size and shape of the nucles (4c) and numerous motion figures (5c) If any 2 of these 3 signs of a high degree of amaphasa were present the tumor was classified as of Grade 3 All other tumors not falling into these groups were present the tumor was classified as of Grade 3 All other tumors not falling into these groups were the properties of the state of the state of the tumor grading have been found of no prognessive importance

On the bass of the 6 significant histological char active tits cited it appears that breast carcinomata are of 3 grades of malignancy in which an increasing grade of anaplasia parallels an increasing grade of malignancy evidenced by the tendency of the tumor

to metastasize and cause death early

It should be remembered that the prognoss based on this type of bisological evidence is not match matically accurate. It should be regarded as only, rough approximation. The phenomenon of malanancy, which we are attempting to measure is a biological one and does not lend taleful to exact is building to the state of the contract of the urement. Vorevoer the extremes that is Grades a and 3 should be given more weight than Grades the less definite middle grade to which a large percentage of breast carrinomatic before.

In conclusion the author says that histological grading should be considered merely as an additional method of obtaining information with regard to the prognosis as the information gained from it is subordinate in importance to the clinical data

TO EPR K N RAT M D

May E A Methods of Roentgen Treatment in Carcinoma of the Breast R port of 210 Cases Radiol sy 933 1 420

The statistics of the last ten years have clearly estable hed the fact that in cancer of the breast contigen therapy following operation has considerable increased the incidence of five year curtain inoperable and recurrent cases it is indepenable. However in spite of its general use no uniform or stands direct technique has been adopted.

The treatment can be varied in the following factors: (1) potential and current: (2) filter (2) focus shin distance: (4) size and number of areas treated (5) direction of each beam of rays; (6) simple and total amounts of runits given each field (1) distribution of the teatments over a shorter or longer space of time and (8) maintenance of sat ratin over varying periods

The relation of the relation o

direct metho is have the disadvantage that the rays sweet through areas which are not affected by the disease and are highly sensitive to irradiation in the tangential metho I develore I by Holfel ler this disadvantage is obviated in large part by the fact that the rays are directed practically parallel with the chest wall from the sternum to the avilla and from the av lla to the sternum In order to improve tle dose by scattered irradiation rice bags are placed over the area treated. In persons with a medium or large chest a deficiency of inten ity between the 2 beams may be compensated for by applying direct irradiation over the mamm llary line in additional supraclavicular field 1 al o treated

The author has developed a method in which 3 tangential irra hations instead of 2 are used. The lateral irradiation is applied to the axilla and directed toy and the sternum In the second fiel I the arradia tion enters below the breast along the arch of the ribs and is directed too and the avilla. In the thi d field it is applied over the upper part of the sternum and clavicle and a directed laterally and caudally In yery large chests the intensity in the center is so small that it must be supplemented by additional irrad ation from the front. This can be avoided by increasing the intensity of the 3 tangential irradia tions using a greater d stance To increase the secondary irradiation the chest; built up with rice bags If properly administered the 3 feld method does not irraliate more tissue than the 2 field method but gi es a more homogeneous irradiation and produces a greater depth intensity

The author has endeavored to prove his theories by experimental means under confitions approvi mately similar to those occurring in practice. His experiments are described in detail and the results tabulated

In the use of the tangential method the full dose of each field is usually subdiviled into 2 or a dises given from one to three days anart. The diminution of the bi logical effect through the loss of time is compen ate I for according to the I fahler chart Irradiation sickness is comparatively rare hen this method of treatment 1 used when it occurs the interval bet een the treatments should be n cre sed

The metho I may be used before as yell as after operation. When used before operation, the operat on may be pe f rme l as soon as the erythema has s biled lost perati e irradiation in c ses not g en pre operati e treatment i usuallo le u as oon as the jutient gene al to lition permits I om s x to e ght ceks after the last treatment a ec nds res smaller than the first one is instituted I'h ee m nihs l te the course of treatment is usu ally in sh d by a thir i still smaller eries

In inoperable or ecurrent cases the cou se to be pu sued i determ ned in large pa t by the clinical mpt m The niti I series of t eatments similar t th t in the postoperat cases except that the nte al bet een the treatments are shorter an ! the d ses are highe A quickl a the general

resistance perm to the attempt is made to admin ter a 100 per cent do e over the entire che t wall including all of the regional lymph drainage six tems which may be affected In the inoperable cases the a held method shows its advantage as the penetration of the 3 beams is better than that of 2 hearns \s soon as the erythema dose is reached it is maintained for several weeks by smaller loses according to the saturation method of I fabler

The treatment of di tant metastases mu t be adapted to the individual case as vell as to the location of the lesion. The saturation method of I fahler proves to be of advantage as it keep the lesion under the influence of effective irradiation o er a period of weeks

Two hundred and ten cases of breast cancer treated by the author in the period from 1923 to 1010 almo t entirely by the tangential method are discussed at some length relative to the clinical and pathological aspects they presente! the technique used in the roentgen therapy and the re ults ob ta ned The following conclusions are drawn

At the present time a combination of irradia tion and operation offer the best results in carci noma of the breast

2 Fangential irradiation vith the 2 field (Hol felder) method or the a field (May) method has con siderable advantage over the direct method ADOL B HA TLAG M D

Evans W A Jr Histological Fact is in the Prognosis of Mammary Cancer Treated by Radical Ope ation and Ray 1 1 ( 3 8

3 sati factory classification of degenerative and mal gnant diseases of the breast has long been wanted Adenocarcinoma has been regarded as the least mal gnant lesion sc rrhous carcinoma as more malignant and medullars carcinoma as the most malignant However the theory has not always been supported by statistics and many have expressed sur pri e at finding very little difference in the esults obtained in scirrhous and medullary cancer

Review of comparate elv large series of cases in recent years ha e revealed no significant difference in the prognosis of medullars and scirrhous car c noma It ther fore appears improbable that the re! twe amounts of stroma and parench ma a e of any importance in the prognosis. The more recent trend in hi tol g cal study has been away from sharp ly defined anatomical grouping to ard grading The authors report an analysis of microscopic

chara teristics ith reg rd to prognos which ias m de in sevents i ve ope able cases of carcin ma of the breast treated by radical operation and short ave length irr diation

In the series a a whole evidence of anapl sia (lack of differentiation) ith respect to tubule fo mation the characterities of the extoplasm and rregul rities of the cells suggested a short post operative survival. Howe er the inference was so slight as to indicate that in the individual case

evidence of anaplasia is of no practical importance in the determination of the outcome

A definite degree of anaplasia cannot be regarded as the fixed characteristic of a given tumor as varia tion is to be found in the same microscopic slide as well as in different parts of the tumor and in the metastatic deposits

The significance of mitoses is not entirely clear as some timors may multiply largely by amitotic cell division and thus in spite of rapid growth may not show a large number of mitotic figures. Moreo et the stage during which the mitotic figure is evident max be greatly shortened in the case of the poorly differentiated cell.

The relative amount of fibrous tissue stroma is of no significance A high degree of lymphocytic infil tration appear to be unfavorable

The addition of irradiation therapy to surgical treatment does not seem to have altered the factors on which the prognosis may be based

JOSEPH K NARAT M D

### TRACHEA LUNGS AND PLEURA

Reinberg S and Simonson S The Changes in the Lungs in Closure of the Bronchus by a Foreign Body and Their Importance for N Ray Diagnos s (De V raend rung n in d Lung be in Verschibs des Br nachu durch e nen F emdl. erp und ih Bedeutung fuer di. Roe tge di gnos ) Vest is Re tge 1 vols 2 x 38

In a number of cases a foreign body may close the bronchus only partially. On Yea examination in such cases the mediastimum is seen to move toward the affected side appears somewhat durker than the normal side and the disphragm is movable only to a limited extent or is completely immovable. In other cases a valve stenos occur. In the latter the nuclear lung appears much lighter than normal and the central shadow is displaced toward the normal side.

Of most importance are cases with complete closure of the bronchus. In such cases there is obturation atelectass of the lung which in the \text{Transport} produce appears as a complete or srhadowing of the entire lung or a part of it. The movement of the disphragm is limited and on account of the o eshadowing of the lungs due to the atelectass is not always. Table the affected sole or moves toward it planed in the account of the comparation. The authors are of the opinion that the obturation atelectass due to the closure of a bronchus by a foreign body and mass e collapse of the lungs are identical processes.

\(\text{Tay examination is able to show the presence of a foreign body in the lungs not only, when foreign body is opaque (metal) but also when it is fully penetrable by the \(\text{Tays}\) \text{Northeless an attempt should always be made to render the foreign body itself as distinctly visible as possible \(\text{Northeless an attempt should always be made to render the foreign ray examination should be made in \(\text{v}\) or the second which the presence of a foreign body in the lungs is suspected.

Foltz P and Canavero C. Pulmonary and Thoracic Actinomycosis (Su l'actinomycosi pol mona e e toracica) 4 ch stal d ch 1933 1

Primary involvement of the lungs by actinomy cosis is rather uncommon and of the cases reported the pathological anatomy of the lesion was stud ed com pletely in only a few Foltz discusses the pathological and bacteriological aspects and Canavero the clin ical a pects of a case of primary bilateral pulmonary actinomy cosis which was studied at the Riberi and Baldi Anatomopathological Institute of the Ocnedale Maggiore e di San Giovanni of Turin Six months previously the patient a woman twenty six years of age had developed a persistent right sided empyema with fistula formation following an acute pulmonitis which had been regarded as due to tuberculous carres of the ribs Subsequently sulphur bodies were dis covered in the discharge from the sinuses Repeated drainage of the abscess cavities and the administra tion of Lugol's solution resulted in no definite bene fit and the patient died At autops) a diagnosis of primary pulmonary actinomy cosis with extension into the pleura and bony thorax was made. Mor phological cultural and biological studies showed

the organism to be the actinomy ces bovis The authors believe that this case does not f ll into either of the two groups—the superficial and the destructive-into which cases of actinomy cosis are usually classified. On such a basis there is to be distinguished a purely pulmonary form (the super ficial actinomy cosis of the literature) and a pul monary thoracic form. In the latter there is a primary involvement of the lung with extension into the thorax to be distinguished from primary in olve ment of the thorax with secondary involvement of the lung In the case observed by Foltz and Cana vero there were peculiar pseudo-adenomatous forma tions which were believed to be proliferations of the bronchial ep thehum. The mechanism by which the patient became infected could not be determined as there had been no known contact by which the disease might have been transmitted. Ifowever the authors believe that the condition was due to direct EUGE T LEDDY M D infection by aspiration

Bronfin I D Th Ind cations fo Collapse Ther apy in Pulmonary Tuberculos s 4 J i Med 933 n 468

Bronfin states that collapse therapy represents the greatest achievement in the treatment of tuber culous of the lungs in the past two decades. It has made advanced pulmonary tuberculous a treatable disease. In properly selected cases it offers a chance of cure far greater than that offered by any other form of treatment. It shortens the duration of the disease and makes recovery more certain.

In the average case the procedures of choice are (1) pneumotho ax (2) phren cectomy and (3) thor acoplasty

In the cases of patients under conservative treat ment the chest should be subjected to frequent roentgen examination and blood studies e pecually erythrocyte sedimentation te its should be made even when the pritient is pursuing a clinically favor able course. If the indications for collapse therapy are found this treatment should be in tituted without delay before extension of the disease makes the patient unsuitable for it.

The indications and contra indications of collapse therapy are determined best by individualizing the cases. A knowledge of pneumodynamics is indipensable to both the physician and surgeon and the best results from collapse therapy require close

cooperation between the physician and surgeon The psychological makeup of the patient must be determined and all fears doubts and prejudices overcome. In no di ease is the personal of so much importance as in tuberculosis. The ability to inform the patient of unpleasant facts in such a way as to make him see the more hopeful aspect of the situa tion 1 of great importance. It is the duty of the physician to inspire the patient with confidence in a proposed new form of treatment without concealing the hazard of the treatment. The author believes that by following such a program closely it is possible to obtain satisfactory results in even such an unfayorable disease as advanced chronic tuberculosis of the lungs PAUL W GREELEY M D

The statistics on the mortality of total para retrebrait thoracoplasty during the last year demon strate defanitely that thoracoplasty cannot yet be regarded as a solved surgical problem. The author considers it essential for any one workine in this field to subject the methods he uses to critical analyses the control of the control o

On the basis of observations made in 114 cases in which Stegemann performed thoracoplasty in the Johannes Hospital of Dortmund he calls attention to possible improvements in the technique used today He belie es that improvement should be attempted first by instruction of physicians There are still many physicians who regard thoracoplasty as the last resort and by delaying the operation lose much valuable time. The fact that the duration of the active disease is next in importance to the pa tient's general condition in the prognosis of thoraco plasty is shown by a table. The prognosis becomes less favorable the greater the number of years the intexication has been present. In all 12 of the fatal cases reviewed with the exception of r case which was omplicated by syphilis death did not occur until six seven or more days after the operation It is therefore evident that the heart damaged by the tuberculous toxin was able to tolerate the opera tion itself but was unable to withstand the increased

flood of toxins throughout the body which resulted from the increasing shrinkage of the diseased lung it sue. All of the principal rules for the management of tuberculous patients can be summed up in the following sentence. I recoost time must not be lost in fruitless therapeutic methods. The theory that thoracoplasty can always be performed as a last resort must be abandone.

Thoracoplasty is indicated most definitely in cases of chomostoward shrinkage. In cases of the control toward shrinkage. In cases of this type the author has been able to obstain a consider able number of cures lasting longer than five years old greater interest than the completely cured cases however were those in which the permanent cure expected from thoracoplasty was not realized. The author cites 2 examples in which an extensive para vertebral thoracoplasty according to Sauerbruch's method did not succeed in closing the cavities and re operation was necessary.

Stegemann next reviews the opinions and the best technical methods of surgeons who have been per forming thoracoplasties during the last few years

The churcal results of pneumothorax treatment are then compared with those of total parawretebral thoracoplasty. The more complete the pneumo thorax and the more complete the compression obtained by thoracoplasty the more definite the effect on the cavities. Operation to obtain maximum col lapse requires a knowledge gained from physiological studies of the statics and suspension of the thorax. The experiments of Boiffin and Gourdet and continuon of Kramer that the resection should be car ned out according to the shape of the different risk (nb flare) are discussed with the aid of sketches

In the second part of the article Stegemann takes up partial thoracoplasties especially the upper thoracoplasties of Bonniot and Graf in which the apex and upper lung fields are freed completely from the adhesions attaching them to the ribs. On the basis of illustrative cases he emphasizes that the posterior upper thoracoplasty of Sauerbruch does not always give a completely successful result Neither can liberation of the lung apex by pneu molysis in cases of high cavities always overcome the disad antages of partial resection. In 1 of 2 cases cited such a pneumolysis was successful but in the other it failed. If a partial thoracoplasty i done the surgeon should limit himself to the sim plest operation that will meet the requirements such as the Graf operation and omit the anterior accessory incision. The technique used by the author is described in detail In Stegemann s opinion the operation is best performed under anæsthesia induced with ethylene

The incidence of successful results from thoraco plasty varies with the surgeon and clinic from 32 to 54 per cent. It should be increased by improvement of thoracoplasty. Better cooperation with the med call lung specialist is necessary. Stegemann be lieves that the time has come when procedures for collapse of the chest wall should be individualized.

on the basis of the tropical fact is a well as

In the disc, woo of this set of 1 store as different with the reserved and discussed its advantant between the the reserved and discussed its advances in relation to their cooler. He advanced the left theo of the schema for thorseoplass to the following more during the left of the schema for thorseoplass to the following more than the reserved attents in a typical location (1) the ministron of schemas of all levels of generate the schemas of all levels of generate the schema for the sound of the formation of a thin period he of dirental so thou between the rips and the correspond to the schema for the schema from many injection points in the arrhetized Leef Lingson

VAEGELY ated that ling largers as a era tumus lating and gratif hing field. He regards the results of operation on the ph.enc nene as favorable fo the eventaneo s healing of cavities. In a follow to of about o cases which he operated along with Schulte-Tieres the modence of cure following this treatment was found to be 36 per cent. In discussing partial thoracoplusty and plombuge Naereli tated that in partial thoracople to at lea tabe best to the seventh or eighth ribs should be removed and the scapula punhed in under the tump. In the treat ment of lung aboreses in the absence of t'enral ad hesions he has made good use of the paraffin pack. He tated that unfortunatel even toda a number of benun media taual and intrathoracie tamors are not recognized and therefo e not treated \_rmcally In conclusion he reported a case of intrathorance coiter

Brath reported an un stal case of broncheal tear in which thoracoplants became nece san becase

all other p ocedures failed.

Ours wated that parent exerces and its applied too cannot be compared with thoracorb it z as often done. Each of these proced res has also on mid-ations. Onthe expressed prime at the large does of aid-callar which Bo chers was able to allow which it appear in in n R be believe that he has seen cardiate dam ge can set b admension to express with cardiac damper can be about the seen cardiate damper can be about the seen cardiate damper can be about the seen cardiate damper from the calosis tomin. He now uses a crun narrosis in tead of local zent these.

VOLENAN Said that the p oblem of so-called lung herma has no et been satufactoral sel ed Promise of lang to e auto the tales of the ches wall mu t be discreptiated from true I no herrie Moreo er so-called lung herme hould be deur nated according to the contents of the sac rather than according to their anatomical locati a. The more correct term for them would be the acc bernir analogo s to "abdominal hernir" In the more exact designation of the a\_atomical \_te the term unterco tal herma would be anal gous to the term "Legunal bernia. In experiments on animal attempts to produce lung herma were unnecedil From clusted his ones it ameans that pre doarthroses of the r'bs especiall pred spose to the development of tre 1 r bernie

Krondyn wither mana ... in the twee parafin (na derug it packan uriasmia d al fthe fer er leas at betercould be mare I erea at path a flas cone to of rib resects on me miles the Larry or of a ret set place to the test which have seen tied c and the in rod thing an In the f Krob attends to 1,cat mand walled 1 onchects canties near the 12 s by errens e rib resect of when conservat te men. res 1 He a editar be who beserve that in artsacral them paralysis they ha e a power dimea... of tati.... p im an t er CLI S.S. He called attenuon to the temporary com tresson of the de ra sed the race wall t ward the media timum which he recommended oversy of In condision be expressed his clear re o er the fact tuat the error re and dramate of the meda ......

In Fire as a logical and covert method.

RITHER decisions an included of supposition, and are reported to the supposition of the supposition of a rith the reservation of a rith the contribution as a serial state of the supposition of a rith the supposition of a rith the supposition of the supposition of the fact that the fact is a power of which is in a line in every been so the plant in the end that decided by the supposition of the supposition

through a p griar meason, which he are recom

mended in 1014 as a means of comusing the disas-

tro s mediastical emph sema, has been recomme

wound of a wide enile game, pad.

Somer, was to deat to avoid and composed some states radially proof as an accessing Before even thorseonal, he perform a proclass but house restriction of the mist and second most be the method of Gent and then performs the rest of the constants but he method of Gent and except that he disease the meaning ruph as septimed by medium of the same than on the composed appear and prevents to restrict the configuration of the configuration of the composed appear and prevents to restrict means to configurate the configuration of the co

Symmess as all mending the permeter and over the agent in an ever well tolers of the tent of the season which can be meted on the date are meted on the date are meted on the date as the season to the first the tent of the tent of the control of the large at the entire the mending of the large at the entire tent of the large at the entire the meaning of the entire the season to the first the season to the first the season to the first the tent of the entire the season to the first the entire that the entir

TOTAL Z

Wiener J J and Fishberg M Ultimate Results of Thoracoplastic Operations in Pulmonary Tuberculosis 1 ch 1 t Met 1033 lt 341

In forty four cases of pulmona x tuberculous treated by thoracoplast where were four death within a week after the operation a postoperative mortality of o per cent. Fourteen (30 per cent) of the patients die l'xithin a year after the operation. This mortality i higher than would be expected under any other form of treatment or no treatment.

at all in cases regarded as good operative risks Seene (150 per cent) of the patients are still in the hospital and fourteen (31 S per cent) are still under treatment in the outdoor clin cor some other institution and unable to do any york. hatever Therefore are pective of the local results of the operation or its influence on the symptoms of the dieseste 45 per cent of the sur 1 ying patients have

not been rehabilitated sufficiently to enable them to ork and including those who died within a year after the operation 80 per cent of the forty four patients den ed no benefit from the operation

Five patients are nt for some ork but expectorate more or less profusely and suffer from dispinate and fat gue on slight exertion. One has since been treated in sanatoria for eight years. Some of these patients might have been considered cured if the results had been reported prematurely.

In the cases in which thoracoplasts vas per formed chiefly to control recurrent pulmona v harmorth ge the bleeding still continues and in some of the cases in which harmorthage was not the symptom leading to surge cal intervent on or had not occurred previously there has been more or less copious bleeding since the operation

In no case was a tuberculous cavity completely collapsed after the ope aton. The was pro ed by serial roentgenograms and autopsy findings. Roent genological and autopsy studies have demonstrated that collapse of tube culous cavities by thoraco plastic operation, which is supposed to promote their of literation; entil et illusory.

Of ten patients the propneumotho ax four are dead to are still in the hospital very ill and three attend the follow up clin c for treatment of annouing draining sinuss is.

ell enough to do part t me ork.

The authors behe e th t if these fort four pa

tients had been treated conser at the verbad not been gie en treatment the final eaults oull hat e been much better. Then hat en the berved as single patient who hen seense early earts after a thorator plasty was free from the s mptoms of tuberculor to the same extent as min a patients given climate or in tutional treatment; the outh ut artificial procumothorat.

Rob rts J E H and Nelson H P Pulm nary Lobect my Th Technique and a Repo t of T n Case P ( J S g 1933 x 7

In eight f the ten cas s reported by the authors the pulmonary lobectom as performed for uni lobar bronchiectasis and in two for primary bron-

The technique followed Shenstone's modification of Brunn's procedure except for features such mass transfixation and ligation of the pedicle and resection of a portion of a rib at the site of the vater seal drainage tube

Six of the ten patients were healed and rendered free from symptoms to were enabled to return to ork but continued to have symptoms and two died one twelve days and the other minety days after the operation FRANKINE WILTON MD

Janes R M The Surgical Treatment of Bron chiectasis B 1 J S g 933 57

The author briefly reviews the surgical methods of

treating bronchiectasis and divides them into three main groups

With regard to the method of collapse therapy which include pneumothoray thoracoplasty and phrenico e eresis he states that the pathological picture prevents such procedures from effecting a cure. However, they may result in symptomatic heapfit.

Janes has not used pneumotomy with drainage of large collections of pus although it is believed that the pathological character of the condition makes it possible to obtain a cure from such a procedure

Janes and hi colleage e Shenstone have obtained the most succes ful results from excision or destruction of the involved lung tissue. They prefer a one stage lobectomy preceded by pneumothorax. The salient features of the operation include a

double temporary ligation of the pedicle of the lung ith a special snare tourniquet followed by trans fration of the apparent vessel and bronch inversion of the stump of the pedicle with a Lembert su ture and its subsequent burial in the adjacent lung bed and tight closure with water scal drainage

Of sixteen patients operated upon in this manner six ere cured three were benefited to were not benefited and five died

Emphasis s placed on the importance of exact pre

operatic elocalization of the lesion determined primarily by Ipodol studies proper selection of the cases and the type of anesthesia. At the present time spinal anesthesia is preferred. A considerable afebrile interval should elapse before the lobectomy is performed and if possible the operation should be performed in one of the warmer months of the vear Fravaline II. 70 MD.

Rob nson W L Bronchi ctasi A Study of the Pathology of Sixteen Surgical I obectomi s fo Bronch ectasis B t J S t 933 xx1 30

Robusson reports further microscopic evidence in support of his belief that the most cons tent patho logical finding in bronchiectatic lesions is a chronic inflammatory condition of the bronch I walls The degree of damage varies on microscopic lesions up to complete destruction of the musculo clastic tissue When the resiliency of the bronchial wall is lost and sacculation has occurred an unbreakable vicious circle has been produced

The thickening of the intima of the walls of bron chial arteries is thought to be an important factor lowering the resistance of the tissues and favoring persistence of the infection.

FRA TLIN E. WALTON M D

Ormerod F C. Malignant Disease of the Bron chus J La y fol & Ot I 1933 xl m 733

Of twenty seven patients with malignant duesage of a bronchis whose cases are reviewed by the au thor twenty three were males. The youngest patient was twenty seven years and the oldest seventy four vears of age. In fifteen cases the lesson was in the right bronchial system and in twelve in the left. The patient is occupation heredit; and previous history gave no clue to the cause of the lesson.

A dry cough was present in all cases. Sputim was abent in only two cases and was abundant in two It was mucopurulent in character and contained pogenic organisms. Hemoptives was the immediate cause of death in two cases and occurred to some degree in twenty-one. Dispince on slight exertion was a striking 50 mptom in twenty-one cases. Lassiful dwas present in mine and loss of weight occurred to death of the control of the c

In the older patients the tumors were of the squamous cell type whereas in the younger patients whereas in the younger patients whereas in the younger patients of the older and the younger patients of the younger patients which underly the suggested that all types of carcinoma arise from the laver of small ow od cells which underly the mucous membrane. Vetastasses occur commonly in the mediastinal gland. They occur also in the suprarenal gland hier pancress brain and other organs.

The ideal treatment is complete removal. Irradia toon in the form of deep \ ray, therapy or the use of radon seeds is recommended to meet the requirements of individual cases. Treatment by the radium bomb has been yery disappointing.

GEORGE & COLLETT M D

Hruby A J and Sweany H C. Primary Car cinoma of the Lung with Special Reference to Incidence Early Diagnosl and Treatment 1rk I 1 Med 1933 ln 497

In a vey extens e endemological and clinical study of pinnar, cancer of the lung the authors found that in the last forts years there has been an approximately ten fold increase in the number of cases coming to autops; However the bel eve there is no evidence to prove an increase in the general incidence of the dicesse. The apparent increase the stiffnute to (1) the increase in life expectance, from forththree to fifty—ceptly cases in the last half centure (2) better knowledge of the cause of other julm named assats (e.g. knowledge revolung from the discontinuous of the tubercle knowledge). (I) bette diagnostic equipment (i) increased and in the part of the med cal profess on and the lasts. (I) better the ort I usation and (6) recognition as primary causers of tumors that were once called metastases are is an commata.

The clinical course of the d sease is character of a bit a gradually developing cough f ll med by variable but con tant pain and the expectation to system which is frequently strated of with blood and accompanied or followed by dispute of the common signs are anoreasy ferre flows of weight is reptoms due to pressure (displagmant apploant) and a variety of symptoms due to metastases. The physical signs are usually those of a graduall explained production of the common signs are usually those of a graduall explained production.

The roentgenogram reveals a diffuse or circum scribed shadow near the hilus or along a bronchus on endoscopic examination a woody or fixed bronchus is found The bronchoscopic section generally clinches the diarnosis

The laboratory examination at first shows a same sometimes blood streaked roucoud putum which is free from tubercle bacilli. Later tumor cells may be found in the sputum or pleural fig. 1.

GESOPHAGUS AND MEDIASTINUM

Monkhouse J P and Montg mery S K. A Report of Seven Cases of Partial Thoracic Stomach with a Short (Esophagus J La y N Cotal 1031 zl 43

Partial thorace stomach in which the esophagus is congen tally short and the deficiency is made up by the passage of a portion of the stomach through the esophagual haitus has been described. The coudition has generall been disco ered at posten item examination and presumably caused no symptoms.

The authors report seven cases in which the d ag nosis was made by \ ray and endoscop c examina tion. These cases fall into two groups, those with and those without dy phagia.

The condition is a sociated with pair which resmilles the failurent despers a of choler satius. The dysphagia is not stead I progres is a sin carmon but intermittent and for some time often jears is not see cre. It is due to the presence of an ulcerated structure. Harmateness may occur in both groups of cases. Mucous membrahe errored thracter of the instant despin gan on time time state in the control of the state of the control of the state of the adilatation lined with gastric mucosa is found at a level above the diaphrarm.

To visualize the condition by \(\frac{1}{2}\) ra exam \(\frac{1}{2}\) in the patient should be placed in the sape \(\frac{1}{2}\) in antenior oblique position with the head lower than the hips. When barriam is sucked slowly through a tube the crosph gus is observed to open into dilated size also \(\frac{1}{2}\) the diaphragm and no thin stream

of barum representing an abdominal exophagus as seen up has below the displanting. The exosphagus is not to the control of the control of the control to must be differentiated from paracesphageal berun at extuclium of the lower end of the exophagus and the physiologically normal exosphagus In cases of obstruction carcinoma cardopasm and other structures must be excluded.

Cases with symptoms of the obstructive type are relieved by dilatation but the other group do not respond well to treatment

GEORGE A COLLETT M D

Popper H L Spontaneous Rupture of the Esophagus (Spontanruptur des Oesoph us)

Med Kl 1933 1 810

The author reports a case of spontaneous rupture of the esophagus The patient was a man forty five years old who had consumed a rather large quantity of wine the evening before his admi on to the hospital and had vomited several times during the night About two o clock in the morning he had a very severe attack of vomiting which was followed by extremely severe pain in the left kidney region On admittance to the hospital he appeared to be suffering greatly There was no cyanos ration was rapid and supe ficial Breath sounds were suppressed over the left lower lobe posteriorly but there yere no abnormal findings in the lungs. The abdomen showed a marked defense reaction and board like rigidity in the upper part Perforated ulcer was suspected and laparotomy was done. As the findings were entirely negative the abdomen was closed. Three hours after operation the severe pain recurred the dyspnox increased the pulse became more rapid and definite cyanosi appeared Examination of the lungs revealed an area of dull ness the width of a hand on the lower left side marked weakening of the breath sounds and a tympanitic percussion note over the remainder of the I ft lung \ ray examination showed separation of the left lun, from the chest wall by an air cushion about three ingerbreadths in width and shifting fluid more than a hand's breadth in height at the base The heart and med astinum were displaced markedly toward the right. The right lung appeared normal Pleural puncture which yielded consider able air and about 100 c cm of a dark brown odor less fluid was followed at first by definite improve ment in the condition but several hours later a relapse occurred and the patient died

When the perstoneal cavity was opened as autopsy the left half of the disphragm balloaned downward When the left pleural cavity 1 as opened consider the best peace of Dark bo was fluid was found in the left pleural space. The left lung was completely compared to the left pleural space of the left pleural space of the left pleural space. The left lung was completely was displaced to ad the med lung. The least was displaced to ad the med summary of long was displaced to ad the med summary of long was displaced to ad the med summary of long was displaced to a fluid pleural space of long was displaced to a fluid pleural pleural space of long was displaced to a fluid pleural pleural space of long was displaced to the perforation were formed of slightly overhaping smooth murcous membrane. From there

to the level of the bifurcation of the trachea the periosophageal its use were undermined and black vear the diaphragm a hole in the mediastinal pleura communicated between the left pleural cavity and the undermined periosophageal tissue of the mediastinum and from there with the perforated opening in the exophagus

Since trauma could be excluded the author attributed the condition to spontaneous rupture of the orsophagus. He cites several cases of spontaneous rupture which have been reported in the literature and discusses the diagnosis therapy and possible causes of the condition. Ye June 2

### MISCELLANEOUS

Bock A \ Dul n J W and Brooke P A Dia phragmatic Hernia and Secondary Anæmia Ten Cases \ \text{lew E gland J Med 1933 CCT 615}

The authors review ten cases of herma of the stomach through the exosphageal onfice of the dia phragm associated with bleeding from the gastro miestunal tract. In no case are they able to detect any other cause for the bleeding by, chinical or toent geological means. In three cases abdominal exploration failed to reveal any other cause. In the vocases that came to autopsy small injected areas were found in the mucosa of the prolap ed part of the stomach. The authors believe that the cause of the bleeding was congestion of the gistric mucosi due to increased venous pressure.

S MUEL PERLOW M D

Hedblom C A Intrathoracic Dermoid Cysts and Teratomata with a Repo t of 6 Personal Cases and 185 Cases Collected from the Literature J Th cic S g 1933 ; 2

Congenital cystic tumors containing ectodermal derivatives are called dermoids or epider moids those containing also mesodermal derivatives are called dermoids or teratomata and those with all 3 germinal layers are called tera tomata. The best general inclusive term is der moid.

There are z hypotheses as to the embryological origin of dermod the monogermula and the bi germinal hypothesis. According to the former all types develop from the same embryo whereas according to the latter z undependent embryonic anlagen take part in the formation of a parasitic fetus in felu.

The hierature reports 185 cases of intrathorace deemods all verified by the find go of epidermis har cholesterin crystal or sebaceous material in the spurum aspirated fluid or discharges from sinuses or at operation or autopsy. To these the author adds 6 cases. \united \text{they two of the top subjects were females. The ages ranged from three months to seventy years.

The s tes of intrathoracic dermoid are (1) retro sternal or between the mediastinal pleurar (2) cer vicoretrosternal or in the suprasternal notch or be hind the sternoclavicular joint (3) mediastinotho racic (4) laterothoracic or partly within the thoracic cavity

The smallest tumor that has been described a sate size of a pigeon's egg and the largest weighed 6 360 gm. Adhes one were present between the tumors and the sternum the percardium the great vessels the exophragus a bronchu the throught the traches and vertebra.

Ninety s x tumo s ere ep dermo d and con tanned desquamated epithel um gland secretions or cholestern in the form of water, strupp gelatinous or pasty clear milks vellowish or brown h substance often mixed with hair Fifty of the tumors were dermods containing cartilage bone teeth smooth or striated mixed and blood vessels in addition to the structures of ectodermal origin Thirtt ton to the structures of ectodermal origin Thirtt among other tissues those derived from or resembling the tissues the element from or resembling the tissues of the digistive tract respiratory tract thymus thyroid pancreas liver spleen ovary falloplan tube or uterus

Complications are not uncommon. They consi t chiefly of rapid enlargement of the dermo d perfora ton infection and mal gnant degeneration in the nature of ca cinoma sarcoma or chorionepithelioma with or without the formation of metastases in other

o gans

Among the symptoms of an intrathoracic dermoid are cough dyspacea pleur is with o without effu sion pain swelling in the neck or chest dysphagia hoarseness orthopnora palpitation pressure and the spiting up of hair or only fatty sebaceous o cheess material

Physical e amusation may reveal dullness or fatness over the tumor distant b ceth sounds absence of breath sounds bulging of the chest on neck a drain ing sinus a dema of the face or arms enlargement of the next unequal radial pulses pleuris with or without effusion or empsema. Yary examination shows the tumo shadow. The different at on from ecchinococcus and other cysts anear time merapsulated effusions sub-ternal goiner and cold absense may be direct. Exploration says and an and description of the cold of the cold

Raidcal e Impation is the treatment of choice A ce vicosternal derme d 1 reached through an in ci ion such as that made for a substernal gotter The interspace or civing the tumo may be incised and the pleura opened with o without in bresection Sx case are reported in detail. Excellent opera to ersuits were obtained in 4. On patient had a persistent draining sinus and died a 3 year after the operation from pneumonia. In 1 ca e the dermod was found at autops 1 D E. Witters M.D.

### SURGERY OF THE ABDOMEN

### ARDOMINAL WALL AND PERITONEUM

Folloring a review of the literature on sponta neous herma in the semilunar line of Spigelius the author reports four ca es and the findings of a complete study of two recent case

In the lateral region of the abdominal wall along the so called semilurar line of by gelius superiority and inferrorly both tive and fall the hermac may occur. Whether these are traumatic or spontaineous cannot always be determined. True spontaineous hermac develop frequently in the aponeuror is the hermac develop frequently in the aponeuror is the cetter of the transversalis must be able to the transversalis must be used to the cetter of the rectus should be always the superiority of the rectus should be the most proper anywhere along this line they are most present in the hypocastra region.

There are m ny dufe ent opinion's regretalize the cause of these herm: A role is a sacribed especially to the foramina hich contain the vessels and nerves in the region as they penetrate part of the abdominal wall. It is possible that the hermic begins along nal wall. It is possible that the hermic begins along the foramina transmit nonables westle branches of the deep hypogastric. The presence of development from the propertioneal fast of small hypomata hich force their was through these foramina or through tears in the transversal fascan may be an etological factor. In addition, the et it the possible that the propertion of the propertion of the propertion of the propertion of the properties of the prop

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From 19 clinics th 4 9 surgeons 20 199 opera tion for ingu nal herni vere collected. Of these 19 328 (05 pe cent) we e performed for p imary a and 8 t (4 3 per cent) f r recurrent herma Of 604 patients ope tel up n for primary hern a by 04 surgeons in 20 chinics 296 (49 per cent) were found to ha e a rec ence when they tere e examt ed The incidence of recurrence afte operation for inguinal he ma is estimated statis t cally at from 3 to 3 5 per cent About 91 per cent of the hern æ in the cases reviewed were ind ect and o per cent were direct. Strangulated hernix constituted o per cent of the total numbe Bas ni method was used most f equently for loth primary and recurrent hernia being employed in o er two thi ds of the cases. The incidence of recurrence afte this operat on is estimated at 4 2 per

cent. The incidence of recurrence after the Koch reoperation was relativel, low (3 a per cent but on account of its dangers this procedure is not generally advisable. The incidence of recurrence after other op rations was as follows. Girard's operation 5 per cent. Hackenbruch's operation 5 per cent. Machenbruch operation and journal operation and journal operations are also mentioned. No relation is a found between the incidence of recurrence operations are also mentioned. No relation is a found between the incidence of recurrence and the number of surgeons in the various clinics.

and the number of surgeons in the various tunies. Local anexthesia was preferred in 4, clouds sentent based narrow and The times are adverted based narrow and The times are and then quarks fastiens out. Mere than a third of the required to the control of the co

In two-third of the clinics the patients e e al lowed to get up in the second eek after the opera tion and in one half they ere alloyed to return to work after approximately four eeks In 61 2 per cent of all cases the site of recurrence wa in the inner angle of the scar in 36 4 per cent at the outer angle and in 17 per cent in the middle. In o 6 per cent the site was not recorded. The incidence of recurrence in these sites after the Bassini opera t on vas about the same I ersons engaged in heavy manual labor are 6 times more prone to develop recurrences than sedentary orkers. The sutu e material use l hether catgut or non absorbable material (sifk linen) is of n importance in the development of recurrences. In the cases of nonnearcerated hernia e newed the operat e mortal ty as o 5 per cent and in case of incarce ate I hernia 30 per cent Approximately e ery thi d death y as due to strangulation of the hernia R SCHEE (Z)

Kirsch ner A Mod fied Bassini Operation for Ingu nal Hern a Which Has Been Employed in 4 500 C s. if net a 4500 i 4 fl. end t Ub t dc. B h L st b h p. t nl 1 h f h l Ch. 9; 1 L d

It is his with the Bissin operation for inguinal herina is followed by a define a through greath varying neidence of r cur ences in the c. ses of all surgeons. The recur ences a caused by an opening or bulging which occurs in the region of the posterior. Bass in suture layer unting the rectus internal obloque nd transve's lis muscles and the tr is erisals fas a to the inguin I bigament. Such open ings may occur at the medial end of the suture close to the public tubercle or at the lateral end in the region of the ite of perforation of the spermatic cord Bulgings may occur throughout the ettent of the suture line. The danger of recurrence may therefore be dimmished only by increasing the security of the nosterior deep Ba sin, suture.

In a modification of the Ba s m method used by kirschier to strengthen the posterior deep nature by aponeurous of the external oblique muscle as united with the deep Bassius suture suthout interposition of the cord and the cord is di placed unto the sub-cutaenous tissue. By this procedure the site of perforation through the deep Bassius suture and the site of perforation through the aponeuro is discovered to the external oblique muscle are superimposed so that the external oblique muscle are superimposed so that the external oblique muscle are superimposed so that the exit form of the sub-cutaenous through the aponeuro is provided to the sub-cutaenous through the process of the sub-cutaenous s

The author describes the signs of the operation in detail and shows them such farwings. His procedure does not vary greatly from the original Bassim operation its purpose is merely to reader the results more lasting. Recurrence is made more difficult in the medial corner by the absence of aponeurotic defects in the external inguinal ring recurrence in the lateral corner by the repeated acute angulation of the spermatic cord and recurrence along the entire course of the suttree line by the strengthening of the posterior laver by the supermiposed external oblique aponeuross.

Cazzamali P and Miglierma R The Bacteriology of Acute Peritonitis (La batten logia dell peri tonin acut ) Arch tal di ch 1933 xxxi 573

The authors present a chronological review of the more important literature on the batternology of acute pertonnis. In the early period all in estigators inende to consider the bactules cold as the cause of acute peritonists. With improvement in bacternological technique the importance of the organisms was established. Of special interest is the emphasis placed on the presence of the various anaerobes in these infections. The modern conception fends to combuse the older views and to consider the presence of these multiple organisms and as a simple mined infection but as an infection in which the several different bacteria have a symbiotic relationship.

After prisenting, the details of the technique employed the authors report the results of a study of night) one cases of acute personnis. Among these eighty-one cases there were most sentle cases the cases with one organi in twelve with two organisms extentions with one organisms where we will not organisms and two with say organisms and two with any organisms. The primary cause was appendicular in study of the cases perforated pept under a ten cases cholecystitis in two cases I neurons in two cases gnorthora in two cases and operation to one

The number of organisms present seemed to in crea e with the duration and diffus on of the infection. As a rule the aerobes appear before the an

aerobes in the contamination of the peritoneum Frequently the organism, pass through an apparent ly sound appendiceal wall. The greatest number and variety of species were found in cases of perforation Also in these cases the prognosis was poorest. In the authors opinion it is impossible to determine the prognosis from the exudate alone and the presence of marked phagocytosis in the smears is not neces sarily indicative of a good prognosis. A relative prognosis may be made on the basis of the relation ship between the findings in the smears and cultures Absence of bacteria in smears and cultures is fa or able Also favorable is the presence of organisms in the smears and their failure to grow in cultures When organisms in the cultures show about the same numerical ratio as those in the smears the prognosis is unfavorable. A reserved prognosis should be made when more organisms de clop in the cultures than were seen in the smears and when new species ap pear in the cultures It must be borne in mind that the bacillus coli is the least resistant in the neri toneal cavity and may even disappear while the streptococci persist A Lotis Rost M D

### CASTRO INTESTINAL TRACT

Twining F W Chron c Hypertroph c Stenosis of the Pylorus in Adults B ! J Radul 1933 1 644

Twining reports three cases of chronic hyper trophic stenosis of the pilonis in adults and re-reseight nine cases collected from the literature. He emphasizes the roentgen findings and calls attention to the extreme difficulty of making a differential diagnosis from other stenos og prepilone fesions.

The lesson is essentially a p epylonic muscular hypertrophy extending proximally into the antrum. There is a clear division betteen the hypertrophied pylonic sphinicter and the hypertrophied prepylonic muscle, and the pylonic sphinicter functions independently of the rest of the mass.

Of the author's three cases only the third case presented rocateen findings sufficiently typical to suggest the nature of the condition. Of the ninety two cases renewed a correct pre-operative diagnosis was made in mome and the possibility of chronic hypertrophic stenosis was conside ed in only three

in Twining a first case the pre-operate of agnoss-was perpolane ulert. Examination of the pecimien following pylorectomy showed simple hypertroph of the miscular coat In the second case the pre-operative diagnosis was small pyloric carationar but examination of sections of the miscular coat in the carationary sections about a pyloric chronic hypertrophia seconds are the third on the Vira findings were very definite and as they resembled those in Case of which was examined any sears per county. It is a second to the companion of the property of the companion of the property of the companion of the property of the pr

In Twining s opinion the typical lesson of chromic hypertroph c stenosis of the pylorus in adults is spharter (2) a cleft between the spharter and the spharter (2) a cleft between the spharter and the santal hypertrophic mass (3) a narrow lumen of the mass (4) a rounded provinal end in the antrum resembling the utterno es and (5) retention of pockets of barium in the mucosal folds at the entrance to or just inside of the provimal orifice

It is particularly difficult to differentiate this lesion from an ulter with cicatricial stenosis or spasm and from a carcinomatous filling defect

The author quotes Kirklin who reported eighty one cases from the Mavo Clinic Kirklin considers the duodenal shadow and the lengthening of the pylonic end of the stomach as almost pathognomonic of chronic hy pertrophic steno is

In conclusion Tuning says that chronic hyper trophic stenosis of the pylorus should be suspected in all cases in which roomigen examination shows a prepyloric filling defect with any of the features described E R. (1881DE M.D.

Florentini A Changes in the Gangi a of the Walls of the Stomach in Experimental Inflammatory Uccrous Lesions of the Stomach (Null lite d ga gl n ryosi della par t gastra neile l m nflamm torne ul ose sp nm nt h d li

933 xn 7

tomaco) Inn tId ch

Following a review of the Continental literature on ganglion-cell changes associated with gastro intestinal die case from Jurgen's reports in 1850 to Rossi's report in 1920 the author describes the nor mal innervation of the stomach in detail and reports three enes of experiments which be carried out on

rabbits.

In the first series of experiments the pylonic artery was ligated and cut the gastrohepatic ligament then esse ered on either de of the coronary artery and the coronary artery and of the vagus nerve branches in the cardia and a large number of the sympathetic fibers coming from the cord as pleasy were blocked.

In the second series of experiments the pylorus and cardas were denersated by the same procedure but in addition from 0.2 to 1.cm of a broth cut lure of staph-licoccus pyo-eners albus and aureus obtained f om a gastric ulcer in man was injected under the senso of the gastric antirum. The incubal content of the cultivity ranged from eight hours to three cuts of the content of the cuts of

The third series of experiments consisted only of the injection of living broth cultures under the e osa of the anterior gastric wall of the antrum. In the first series of experiments the eight rabbits

died respectively one two three four five see an twents two and fifts nine days after the operation. In the rabb ts which died within forty eight hours after the operation macroscopic and microscopic examinations of the stomach revealed inflammatory degenerative changes which were most marked in

the pars pylorica. In the four rabbits which died between three and seven days after the operation they declosed ulcrous lessons in addition to inflam micros. In the rabbit, the died on the seventh day there was extensive gather, ulcration at the junction of the middle and di tal thirds of the stomach near the lesser curvature. In the rabbits dwing between the twenty, second and fifty mith days there were custartial scars but no active gastral lessons.

These findings are interpreted as exidence that severance of the nerve supply max lead early to true ulceration which heals if the animal survives. The nerve cells in this group of rabbits showed early peripheral displacement of the nucleus which other was was practically normal. In the rabbits with true gastine ulceration not yet undergoin, repair thormations and marked elsons were seen. The necrobiotic changes were py, ino is hidrops ordema enerve atrophy and degeneration. In the animals showing a tendency toward spontaineous repair undergoing angelion changes were still visible but less numerous

and fewer cell showed marked involvement In the second series of experiments, seven rabbits died respectively one two two three four eighteen and thirty two days after the operation and one rab bit was sacrificed after forty four days. In the gas tric walls of the two rabbits which died vithin forty eight hours there were marked inflammatory changes but no true ulcerations. In the rabbits which died from two to three days later acute gastric ulcers were found These ere numerous but were super ficial not extending to the muscularis mucosæ They were practically limited to the lesser curvature In the rabbits which died from eighteen to thirty two days after the operation there were no gastric ulcers but the mucosa was thickened because of an increase of interstitial connective tis ue with vas cular and perivascular sclerosis. In one rabbit ad hesions were found. In the rabbit sacrificed on the forty fourth day there were two contiguous ulcers which were fairly deep having their bases in the muscularis mucose

In this group of rabbits the ganglion cells showed more marked pathological changes than in the rabbits of the first group. The changes ranged from very moderate to se ere in the animals which died early without true gastric ulceration the nerve changes were slight but in the older animals they change were slight to the role of the rabbits of the changes were slight to the died rannals they either the change were slight to the died to the change were slight to the older the change were slight to the older the change the change which is the change which is the change which is the change of the change which is the change of the change which is the change of the change

From this series of experiments the author concludes that many of the nerve cell were irreparably damaged and ultimately completely destroyed whereas some of them which were more resistant survived and regained their normal structure

In the third series of experiments six rabbits ded respects els on the first third fifth sixth se enth and thirty third days after the injection and one

rabbit was sacrificed on the thirty third day Ex amination disclosed marked hyperæmia ædema leucocytic fibrinous evudation and hamorrhagic extravasation Occasionally small collections of Dus were found. The rabbit dying on the first day showed an extremely severe inflammation with numerous small superficial gastric ulcers extending below the submucosa and definitely related to the collections of pus In the rabbit which died on the twenty second day and the rabbit which died on the thirty third day after the injection the inflammatory changes were less severe but examination showed connective tissue infiltration of fus form or round voung connective tissue interstitial cell rabb ts hich died from one to seven days after the injection there were rather marked changes which usually paralleled in degree the inflammatory and degenerative changes in the ganglion cells. In the layers of the stomach which itself was only moder ately involved or free from in olvement the nerve cell changes were slight but where the ganglion cells were actively involved these changes were severe In the rabbits which died twenty one and thirty three days after the injection necrobiotic or altered nerve cells were found near nerve ganglion cell which appeared normal This was interpreted as evidence that the seriously injured nerve ganghon cells had been completely destroyed. The findings ind cated that damage to nerve ganglion cells is slight when there is only moderate or no irritation in the gastric wall whereas with more severe in flammatory changes more marked nerve changes occur and when the gastric ulcerations reach the repair stage the nerve cells which can still be seen are normal or show little or no evidence of patho logical change. This does not e clude the possibility that severely damaged gangl on cells may have gone on to complete destruction and d sappearance

The pathological findings in the first series of egpe ments man have been secondary to severance of
the nerve hiers coming from the autonomic and
sympathetic nervous assems but the author is convinced that the degree of nerve gasquion disease is
consistent proportional. He concludes a lot that in
all three groups of rabbits the changes of the gan
glion nerve cell resulted from the early localization
of the bacterial torus in the nerve ganglia of the
gastine wall. Size I Footsiso MID.

Poz i A and Sforza L Cl nical and Roentgeno log cal Results Obtained n the T eatment of Gastric and Duodenal Ulcer Will Sodium B n zoate (Rilenel ce d lei s l tr ttam t d llul er g tro-duode al lib z tod od) P | 1 R m 1933 l med 509

The authors report with roentgenograms to cases of gastine and duodenal uleer which were treated by intravenous injections of sod um ben zoate Patients with complicating pilone stenosis or other abdominal lesions d d not respond to the therapy. The best results were obtained in cases of

uncomplicated ulcer of the stomach or duodenum Clinical improvement occurred more quickly in the cases of gastric than in those of duodenal ulcer All of the 19 patients showed marked imp ovement after the fifth to the twentieth injection. The un toward effects were insomnia which occurred de spite relief of the epigastric pain and pruritus which developed in some cases after forty injections. In se eral cases re examination with the roentgen a s after the fiftieth inject on showed definite evidence of cure In the others the treatment was continued up to 100 injections but the niche still persisted As a clin cal cure had been obtained in these cases in pite of the pers tence of the niche the authors con cluded that the niche was no longer evidence of ulceration and further treatment was unnecessary SINCEL J FOCEISO M D

Ochsner A Gage I M and Cutting R A Th Influence of Hype tonic Salt Solutions on the Motility of Normal and of Obstructed Intestine An Exper mental Study A b S r 033 74

Hypertonic salt solutions have been used by many clinicians in the treatment of ileus. The authors report an investigation which they carried out on dogs to determine the relative efficacy of various

hypertonic solutions.
In expenients on 6, dogs 128 observations were made on both normal intestine and intestine which had been obstructed for varying periods of time. In each instance Lymographic tracings of the gut we e made so that the results obtained with the different hypertonic salt solutions would be comparable.

Of 21 cases in which a 20 pe cent sodium chlonde solution was injected intravenously intestinal activity was increased in 904 per cent unchanged in 4, per cent and decreased in 47 per cent. The average increases in intestinal tone and in the amplitude of intestinal movements in the 19 with increased act, int we e 28 6 and 0 s mm respectively.

F fty fi e observat ons were made with rega d to the effect of the intra enous administration of hypertonic Ringer's solution The Ringer's solu tion was 20 times normal. In 1 group of experiments the observations were made with the abdomen open and in the other with the abdomen closed. Of the 43 cases in which they were made with the bdomen open an increase in intest nal activity was noted in 95 3 per cent and no change in 4 7 per cent. In no ust nce was there decrease in intestinal cti its The a erage increases n intestinal tone and in the amplitude of movement were 63 8 and 15 o7 mm respectively. The average duration of the increase in intestinal activity was eighteen minutes. Of the 18 cases in which the observations were made with the abdomen closed an increase in intestin lacti its was noted in 9 pe cent and no chan e in 5 pe ent. In the cases of increased activity the a erage increase in tone and n amplitude we e 3 1 and 9 mm respectively. The a erage duration of the increase in intestinal activity was seventeen and six

Of 30 cases in hich ob erast in swere made: the ablone closel following the intravenous administration of 30 times normal Hartmanns solution (modit of Ringers solution) there visual microsase in intestinal activity in 95 per cent and no change in 5 per cent. The acceptance as in the analysis of the second amplitude in the cases with an increase of intestinal activity were 20 and 13 6 mm respectively. The average duration of the increase was a venty and two-tenths minute.

It seems apparent from these findings that a hypertonic solution containing calcium and potas sum in addition to so lum is more efficacious in stimulating intestinal activity than a hypertonic solution of s dium chloride alone. The conclusion in supported by the authors clinical experience in the use of hypertonic solutions of sodium chloride alone and hypertonic Ringer's solution.

Orr T G The Action of Morphine on the Small Inte tine and Its Cl n cal Appl cation in the Treatment of Peritonitis and Intestinal Obstruction 1 S g 933 c 835

The henef cial results claimed for the onium and morphine treatment of peritoritis have been based upon false concept one of the action of morphine on the intestines The author insists that there must be some other tasis than the about breent of intestinal activity. In experiments on dogs he has found that therapeutic doses of mort hine sulphate def nitely increase the boy el tone and the amplitude of the segmentation movements and initiate peristaltic waves Large do es abolish the peristaltic action and somes hat decrease the tone but do not affect the rhythmic contractions Very large doses increase the amplitude of thy thruic segmentation movements Clinical observations in ca es in which ilenstoms has been lone and in cases of thin walled hernix also in licate that morphine definitely stimulates the acti its of the small bowel. The constipating effect of morphine is apparently due chiefly to its spastic effect on the sph neters

thin al application of the findings of these experiment is possible in acute peritonitis and in te tinal obstruction in hich overdistention of the small bo cl is the most dreaded feature Is the fi tention increases the circulation through the wall dec eases and the bovel activity is correspond ingly red ced. Thus toxic material is absorbed while gases are not absorbed. As morphine def mitely stimulates the tone and rhythmic contrac tions of the bowel its use is logical to pre ent over h tention The author bel e es there is no founda tion fo the supposition that such timulated bould activity preads infection. In add tion to its action on the bowel morphine relieves pain and res less ne s and thereby conserves the patient s st ength The ma imal benefits can be of tained only by gr ing in rphine in sufficient do es to prod ce con t nu us narcosis (every four hours) Danger ignals

are respirations below twelve per minute and cva

In the treatment of any intra ab lominal condition assorted with distention of the small be dispical attention should be paid all o to the main tenance of water chemical and metabolic balance. This call four the administration of sodium chloride and water. Is an aid especially in the prognoss frequent auscullation of the abdomen should be done during morphine treatment of abdominal distention. The presence of ga and liquid in a distended bowel gives a characteri (it inkling sould during boy elactivity which is totally different from the more multied sounds of the normally functioning gut

Ea ton E R Unusual Condition Simulating Acute Appendicitis—Vincent's Angina 1: J S & 933 74

To the long list of di eases which may be mis takenly diagnosed as acute appendictis must be added one which is seldom thought of in terms of gastro intestinal disturbance—\u00e4 incent angina

"While this infection is usually confined to the mouth and throat many systemic disturbances have been attributed to it. Cases of brain tumor fistal streptococcus infection, and gangrene in various parts of the body have been recorded."

Morris reports a case in which the infection in saded the entire alimentary canal and replied in death but the symptoms were not sufficient for a definite diagnosis of the gastro intestinal condition In the case reported by I aston the symptoms were so well defined an I pointed so unmistakably to acute append citis that appendectomy was done nathological report was chronic appendicitis. On the second day after operation the patient had a temperature of 102 degrees F herpes labialis and a fatid breath and complained of continuous pain in the abdomen \ smear taken from the mouth for suspected Vincent's angina showed numerous spiro chates and fusiform bacilli. The Widal and Wasser mann reactions vere negative. Following the diagn sis of lincent sang na 3 cm of neosalversan were given intravenously. Immediate improvement was noted in both the throat and the apdominal symp and there was complete subsidence of the fever By the tenth day after the operation all ob tective signs of Vincent's angina in the mouth and throat had cleared up

The fact that acute infections often give rise to symptoms that may be mistaken for those of acute appendicti such as abdominal pain and somiting folio ed 1/a arise in the temperature has been noted by others. Roster remarks that appendict town has been done when the cause of the trouble 1/as a chronic infection of the accessor issuess of the no e and that suspected fromic appendict of the note and that suspected fromic appendict of the note and that suspected through appendict of the note of the note and that suspected that are associated in a capture in the control of the note of the note and the note of the

A marked microsse in the uncidence of append rinks been noted after publicuts of unfluents and other infectious disea see Reuter reports a ca e in their acute appendicties occurred soon after an attack of Vincent's angina. He states that such a sequel to angina has frequently been noted and that in such cases the appendicties is often particularly severe and shows a define tendency toward the development of grangeries. Return between that the bacteriar reached the appendix by ingestion the besteriar reached the appendix by ingestion the bacteriar reached the superior services and hypothy a piece of accroin tissue for the second and the recommendation of the second and the

The physic an who is confronted by a ca e of linearts anging with symptoms of acute appendicitis must make a promit decision whether to operate or not. An unnecessary operation may well

be regarded as the lesser evil

For all cases of \text{Nucent infection the author recommends treatment by intra-e our injection of arsphenamic rather than by local applications in order to counter ct any systemic infection that may be present. Under this treatment the angina and unless a true appendiced less on it present the abdominal symptoms usually clear up quickly. If the abdominal symptoms usually clear up quickly. If the abdominal symptoms usually clear up quickly. If the abdominal symptoms persist immediate operation is indicated.

Aschoff L The Appendic its Attack and Its Relations to Feecal Stone (D rapp ndic ii ch Anfall und : B inchung n zum K (st n) Al n lich schr 933 i 1081

It is generally, agreed that the complete pi ture of phegmonous ulcerous appendicties a produced only by bacteria. The enterooccus has been proved to the the principal certaint but in occasional cases pneumococci and colon bacilli may play a decisi evide. The micro-organ ms to which 'aschoff as cribes the condition con tutute the so called appendiceal flora which in distinct contrast to the accal flora grow under special conditions in the distal part of the appendix 'Attach's of appendixins are in some nay related to the development of the bacterial flora of the pendix success in the absence of an appendiceal flora there is no acute or primary appendictus.

Why do the appendical hora de clop clefly in distal part of the appendix and thy do they be come pithogenic under certain conditions. The answers to these quest one require a consideration of the abacterial conditions preceding, the haternally

induced attack of appendiciti

The first and most important factor is the physiol opperal curvature of the distal part of it e appears of the part of the appears of the part of the appears is rendered more difficult. That this curvature [Ia] is the prin upil rôle in the development of appendicts is evident from the fact that appendictus begin especially frequently behind it whence it appears distally in the muous membrane.

and the other parts of the wall and proximally more in the external layer subtout not on ing the mucous mutrane. According to A host including the localization of the acute indiamnation behind the rur is eatirely independent of the di tribution of the blood es els suchoff calls attent on to the fact the blood es els suchoff calls attent on to the fact when the substantial in append case which also mo regular filing and exacutation of faces.

The question why the appendiceal flora so sud dealy become pathogenic cannot yet be answered with certainty Moreover it is still unknown whether stass of secretion alone is sufficient to ren der the flora patho enic or whether pathogenicity of the bacteria is preceded by some non detectable local disturbance of the circulation such as that assumed by Ricker Such a hypothetical disturbance of the circulation would probably not lead to annen dicitis unle s the development of the appen liceal flora has been favored pre you ly by the physiologic cal curvature of the appendix. If the appendix has been damaged in its evacuating function by more or less severe attacks of inflammation the surest sign of the functional disturbance will be prolonged reten tion of the faces even when the lumen of the appen dix is preserved in its original state and the walls show little macroscopic change. The injury of the expulsion apparatus is followed by a slowing down of the process of evacuation but rarely causes re curring appendicates Because of the absence of more marked changes in the walls the condition cannot e en be call d chronic appendicitis unless perhaps there are d turban es of the neuromuscular apparatus which can be detected only with the aid of more precise methods than those usually em ploved However masses of faces held back too long may sumulate contractions which are painful The combined symptoms then produce the clinical ric ture of chronic appendicitis

The prolonged creent on of the column of faces as not identical with store. The characteristic stress for identical with store. The characteristic stress of topic formation begans not when the execution of lenes from the distil part of the appendix becomes difficult but only after it esses completely II in addition an incrustation of six completely II in addition an incrustation of six occurs a true fixed stone is formed. As a rule faced stone songinate as the result of severe states, for ill financial control of the spready after the control of the spready of the fixed mass. The thicker and harder the stone the more distinct the stratification.

The bacterial content of fixeal stones differs from that of ordinary soft inters. While soft fixers tootstan an abundant admitture of bacteria of the caste for the rexet first iteral stone or ontain memoragian ism with it are typical of the appendixed flows. At the large restones the alternation the conformation of the casterial of the large restones the alternation the conformation of the casterial of the cast

Aschoff is of the op mon that fæcal stones do not exert a mechanically destructive effect on the mu cous membrane since in cross sections of the appen dix he found the mucous membrane completely preserved at the level of the stone even in cases of large tones and the most severe inflammation was distal to the stone in the part of the mucous mem brane which was not mechanically compressed

From his observations Aschoff concludes that the stone itself does not cause the attack of appendicitis it merely favors pathogenicity of the appendiceal flora in some manner as yet unknown. He believes that every stasis of secretion in the distal part of the appendix whether it is caused by the physiological curvature adhesions or a facal stone favors pathogenicity of the appendiceal bacteria Neuvert (Z)

Peterson L. Inflammatory Strictures of the Rec tum and Lymphogranuloma Inguinale (I'nt zuendliche le en d la td ms nd Lym phogranuloma ingu al ) F k lak sallsk ha dl

toti laxy 545

The cause of rectal stricture 1 not always car cinoma In addition to tumor many other causes must be considered particularly when the condition follows an inflammatory process such as dysentery gonorth ea syphili or tuberculosis. During the world war and immediately afterward a new infectious disease which produced elephantiasis like changes in the external genitalia—lymphogranuloma inguinale-s as obser ed particularly in scaports Investigations by Tree and his collaborators demon strated that this condition is an infectious disease six generis. In extremely valuable aid to its recog nition is the Frei intracutaneous reaction. The virus itself is as yet unknown

The disease occurs in the most varied forms In only from 30 to 40 per cent of cases is there a demon strable swelling of the inguinal glands. With the aid of the I rei reaction various investigators have recognized also a latent form. The hi tological changes greatly resemble those of tuberculosis and lues characteristic relations of the infiltrate to the blood vessels stasts of the lymphatics vith lymph thrombi a specific tendency toward reactive connective tissue formation and typical arteritic vascular changes The Frei test is decisive in the differential diagnosis. It has shown also that elephantiasis genito anorectalis belongs to the clinical picture of lymphogranuloma inguin le Torpid ulcers and fibrous tumors which may simulate luctic condulo mata or hamorrhoid may develop at the anus and run the course of a periproctitis even to fistula f rmation. In the rectum, the disease leads to stricture with all its serious sequelæ. The course of the anorectal lymphatics explains also the frequency of ul e ative and stenotic processes in the rectum espec all from 1 to 2 cm abo e the anal margin and about 6 cm abo e the phincier

In from to to \$5 per cent of all of the cases of elephantia is genito-anorectali which have been examine l a positive lymphogranuloma inguinale reaction was obtained. In the vulvo anorectal localization of the disease no form of therapy is

successful Ordinary anti-luetic treatment ha no effect Frei has found chemotherapy of value in certain cases. He recommend antimony Others report succes ful results from tuberculin treatment Roentgen treatment is useles The treatment of inflammatory rectal strictures resulting from lymph ogranuloma inguinale is very unsati factory. The kiel Chnic (Anschuetz) reports that of thirteen patients treated five died. Of the remaining eight five were cured but of these five two had persist ing strictures and the others were discharged with colostomies Conservative treatment-with bougies or the thermocauters or by diathermy - is given as long as po sible. In severe cases colostomy is the only procedure possible

The author reports six cases with the symptoms Anti luctic treatment and roentgen described irradiation were tried but had no effect. In two cases there were severe strictures. Resection of the rectum by Hochenege's method was attempted and for the most part was successful In the other cases a preliminary colostomy was done and after the second stage of the operation the peripheral portion of the colon was remo ed. The patient was left with a persistent iliac anus. The author recommends palliative treatment as long as possible mild lapis instillations the use of bougies in beginning stric tures and dilatation with laminaria Only after healing of the inflammatory and ulcerati e processes which sometimes takes years may closure of the colostomy and the restoration of anal function be considered Because of scar formation the technique of the operation is very difficult

### LIVER GALL BLADDER PANCREAS AND SPLEEN

Edington G II Surgical Diseases of the Biliary Tracts An Analysis of 200 Cases 6/ f 1/ J 933 CX 5.3

Edington reports on 200 consecutive cases in which he operated for symptoms suggestive of gall bladder disease The series included 162 cases of gall stones 25 cases of chole visitis thout stones and 13 cases of other lesions. The 206 operations performed in the e 200 cases included for cholecys tostomies 95 cholecystectomies 4 cholecystogas trostomies 1 cholecystoduo lenostomy and 5 ex ploratory operations. There were 4 deaths a mortality of 12 per cent. Of the 25 male patients It (30 2 per cent) died Of the 71 cases in which cholecy stitis was a marked

feature gall stones were present in only 4. In this connection Edington says It is doubtful whether cholecystitis takes its share in the production of gall stones but it is only to be expected that the presence of stones may excite or exaggerate inflammation of the gall bladder

I dington thinks that the danger of recurrence of gall bladder trouble after drainage operations is apt to be exaggerated. In some cases cholecystectomy does not provide the drainage which is necessary

Inother objection to the operation: the matomical bistortion of the parts v h ch may b a source of difficulty in the event of a secondary ojeration on the ducts. However Fedington concludes that hen a large number of cases are considered the favorable late re ults of excision must weigh heavily with the surgeon. Fruit Cussor M.D.

Stone H B and Owngs J C The Acute Gall Bladder as a Surgical Emergency 1 S g

The authors are convunced that prompt operation is the treatment of choice in all types of acute gail bladder di case. They cite in ne cases should the diangers of delay of surgery in acute cholery stuts and the likelihood of secondary, flare ups after subsidence of the mintal acute lesion under conservative therapy. They believe that in most cases the operation of tho ce is cholery section.

STATE II ME TEER M D

Abell I Wandering Spleen with Torsion of the

Ped cle 1 S t 1933 c u 723

The author has collected from the hierature nnerty five cases of wandering spleen vight rought for the pedice. To these head for 6 histo in the pedice of the splend of 6 histo in the fact that 143 per cent of the patients were under teachty sears of age supports the theori, that a congenital elongation of the splenic pedicle is essential for the occurrence of the condition. The fact that only 10 per cent of the subjects were over forty, sears of age suggests that relaxation of the abdominal wall and the Igaments which support the abdominal values of a cause of major importance that the support of the patients were women but pregnance did not seem to be a factor of major importance.

tance Splenomegaly itself is not of prime impor-

tance but in association with malaria seems to be

of some significance

The majorit of the pat ents ga e a history antedating the torson hich might justly be easer bed to
the plenic enlargement. In some of the cases there
nee digestine die turbinese due to pressure and
traction on the vicer a A small number of the patern had had vicer a A small number of the patern had had vicer a A small number of the patern had had vicer a Small number of the patern had had vicer a Small number of the patern had been as the part of the pendel. In thirty,
four cases the first symptoms had been noted in the
present them. I am nause a counting and an in
crease in the pul e temperature and lewore tecoura
a e u sully present A mass was e ident in most of
the cases but in seven was found in only the left
upper quadrant. Not infrequently a tumor was pal
pated in the pel is "Armail blood counts we etriported in a rather surprisingly large number of

Frimary splenectom w performed in eights three cases Detorsion and replacement were d in occasionalls but the author ad ises against them. The surgical mortality was 176 per cent. In many cases thrombost of the splenic artery or eins had occurred and in some the splenic contained blood cys. I none case the splene contained a cost due to

necrosis from which 4 I ters of sterile pus were removed. In eight cases the tail of the pa creas as nivolved in the to o and in seven there was in t stinal obstruction of varving degree in the large or small box el. St. T.F. II MENTER MO TO STANDED ON THE STAN

#### MISCELLANFOUS

Amel ne A The Informat on Obtained by Per cussion of th Abd m n in Intestinal Infaction (S ) mm is fournes p l per cun n de labdom d s 1 f t t t l)

P stemd I q 33 1 1720

In three cases of intestinal infarction percussion of the abdomen revealed an immovable area of flat ness with tympan m el ewhere in the abdomen In the third case this sign enabled the authors to make a correct pre-operative diagnosis

In two cases the area of flatness was quite him ted but in one case it extended over nearly the entire abdomen. It seemed to correspond definitely to the infarcted loops.

ALBERT F. DE. G. O. T. V. D.

Koster II and Kasman L.P. Pylephieb t s. 4 & S. f. 033 u 9

In the period from July 1 1928 to December 31 1931 the authors encountered 4 cases of p lephlebits at operation. Three occurred in a series of 1 02 cales of acute appendicitis and 1 in a series of 112 cases of acute cholecy stitis.

The most common single cau e of pylephlebiti 1 acute appendicitis but infection in any organ with a venous return emptying into the portal ein may produce the complication Of 16 cases of pylephlebi tis collected by Brown acute appendicitis was the cause in 42 per cent Pylephlebitis usually results in the development of suppuration within the li er with multiple abscess formation in clo e relationsh p to the portal ein and its branches Occasion Il a single abscess m v occur In 1928 Dick dem n strated that die injected into the amous tributanes of the portal vein i usually carried to fairly constant and definite areas in the liver. This finding may explain the almost in anable location of a solitary abscess in the raht lobe of the li er when the pri mary infects e focus is in the appendiceal a ea

One of the most characteristic signs of pylephleb t s is a change in the temperature The temperature changes may be slight or marked and go e no indica t on of the numbe or the distribut on of the suppura tive foci in the live Chills accompanied by a rapid rise in the tempe ature occurring pre-ope ati els or postoperatively in the course of an acute inflamma tors process in an intra abdominal organ with eins draining into the port 1 system must alwa s be con s dered s gnincant The chill do not alwa s recu Dull pa in the right upp r qu drant of the abdomen 1 an inconst at symptom. The le cocyte and differential counts are of no great diaon stic significance Tenderness i almost in ari bl. pres ent but ma be so slight as to be considered neg herble

Taundice 1 almost al vays present and 1s one of the early signs of involvement of the liver When it appears pre operatively it may be misleading as it ten is to draw attention a vay from a causative lesion such as an inflame I appen by and direct it to the biliars pa ages when involvement of the latter is only the terminal complication. When saundice appears as a postoperative complication of appen dicitis the possibility of a complicating pylephlebi us should be given consideration \ slight icteric tint to the sclera may appear even before the chill an I fever

In all of the a cases reported by the authors en largement of the spleen was noted clinically. Blood

cultures are usually negative

The treatment i primarily prophylactic The authors state that if all cases of acute at pendicitis were recognized and operate t upon earl there would be fewer cales of pylephlebitis. If frank suppurative phiebitis of the ve sels of the meso appen dix is evident at operation figation or excisi n of the deocolic vein should be done before the appended tomy When the infection has already pread be yand the contines of the ileocolic year and pylephle bitis has developed operative intervention is of no value unless a ell defined abscess has formed in t high cale incision and drainage should be done

I igation of the portal vein itself is of little value be cause by the time pylephlebitis is recognized clinically there I always infection of the intrahepatic portion of the pertal year which remain as a septic locus for further dis emination within the liver The authors a ca es are reporte i in detail

ARTHUR'S W TOUROFF M D

Truesdale P F Tl e Origin and Course of Infec tion in Subphrenic Abscess 1 5 g 011

The author belie es that the principal source of infection in subphrene al cess are acute pentic ulcer biliars liseas and appendicitis in the order named. The infects n spreads by way of the lym phatics. Involvement of the diaphragm is favored by the d stribution of the lymphatics in the ab lomi nal cavity and the liver. The lymphatic flow from the entire colon an tother abdominal viscera drains directly into the li er and thence to the terminal part of the 1 ophagus into the falciform ligament along the vena cava an I through the diaphragm to the inferior leep cervical nodes. As these lym phatic systems connect all o with the lymphatics on the pleural surface of the diaphragm pleuri v is a possible cau e of sub laphragmatic abscess

STALES II ME T

# GYNECOLOGY

### UTERUS

Shaw W. F. The Treatment of Prolapsus Uterl With Special Reference to the Manchester Operation of Colporthaphy Am J Ob : 6

G3 c 1933 XX 1 667

In Manchester for a continuous period of forty five years an operation of one type always with the same general principles though with varyin, minor technical details has been performed by a large number of gynecologists on all patients with pro lapse of the uterus irrespecti e of their age social position or parity Its results allow more nearly a guarantee of cure to be given the patient beforehand

than those of any other operation in surgery ian those of any other operation in surger) In 1888 Donald of Manchester commenced to treat cases of prolapse of the uterus by the combined operation of anterior and posterior colporrhaphy and amputation of the cervit. The author gives a deamputation of the Donald operation with

minor modifications made by himself

Of 549 cases in which this operation was per formed 96 35 per cent were cured In the six years included in the author's investigat on there were no deaths In twenty six years there were only o deaths in 2 152 operations—I from pneumonia I from heart failure 1 from embolism 1 from septic absorption from a piece of gauze retained in the uterus I from pyehius due to performance of the operation too soon after an attack of cystitis and 4

Of 56 patients who complained of chronic aching from an unrecorded cause pain 49 (87 5 per cent) were cured and of 17 who complained of incontinence of urine on straining 14 were cured Only 27 bore children after the operation but of this number only 5 showed any

Of 171 patients o er fifty years of age 167 (97 72 signs of recurrence per cent) were cured In the 4 others the recurrences

Some surgeons ha e so little fa th in aginal were very slight repair that they always combine it with some form of abdominal fixation of the uterus Howe er when there is a reasonable amount of pel ic muscle and the colporthaphy is performed properly this is

The permeum should be kept as dry as possible At the end of the operation the agina is packed never necessary with gauze soaked in a bismuth iodoform and par with gauze soaked in a Dismuth southern and par affin mixture. This gauze is removed the following morning. On the fifth day a vaginal douche of morning on the min day a vaginar conduct oboract lotton is gi en through a glass catheter to poracic lotton is go en through a giass catheter to wash away blood clots. The bowels are moved on the third day with liquid paraffin and cascara

Even with the greatest care there is considerable risk of infection of the bladder whene er a catheter

is passed. This is true especially after the operation described as the bladder is handled and di placed and some of its blood supply is damaged

The chief postoperati e complication is hamor rhage occurring about a week after the operation However if proper care is taken serious bleeding is very rare. In the majority of cases, the hamorrhage comes from the cervix and is due to a low degree of sep is which has prevented the healing of this tissue so that when the catgut sutures gi e way the cervical

In the cases reviewed occlusion of the cervix was incision gapes and bleeds.

found once Vaginal adhesions are rare EDWARD L. COR TIL, M D

The Pre Operative and Postoperat Content of Ind can in the Blood in Cases of Tumor of the Uterus and Oraries (Sull indi an Sal ini A dl sanou n tumon dllut ro e dllo a ni temp pre e postoperaton) R stal d g cc

The author reports his observations on the blood indican in thirty fi e cases of tum rs of the uterus and ovaries Twenty fi e of the women had utenne fibroids nine had o anan cysts and r had a uterine fibroid and a para ovarian c) st

The indican content of the blood was determined by the Rosenberg Iolles method before operation several days after operation and on the day the

patient was discharged from the hosp tal

To determine the normal content of indican in the blood Salvini reviewed the literature The physiological content reported by various in estigators arranged from 0.40 mgm (Cabrun) to 18 mgm (Kilen) per mille The author accepted the average of these alues from to 13 mgm per mile as the

In the cases of the twenty five women with fibroids the blood indican before operation aried from 1 10 normal alue to 2 48 mgm per mile In the majority it was well abo e the accepted normal On the second or third day after the operation it showed a constant drop except in ca es complicated by kidney disease (e ndenced by albuminuma) or a febrile postoperati e course. In the latter it was always found increased and returned toward normal only after disappe rance of the albumin from the unne and abatement of the

In the cases of the nine women with o arian cysts the blood indican before operat on "aned from 1 40 to 215 mgm Again following operation t howed an appreciable drop except in cases complicated by

In the case I the patient with a uterine fibroid kidnes disea e or fe er and a para-o arian cist the ariations in the blood indican were the same as in the other cases

226

The author ascribes the pre operative hyperin denamins to the absorption of tourns from tumors of the uterus and oarnes. To prove the occurrence of such toursty he cites the heart condition associated with myomata (knowsberg Doane and Henkle) the arterial and venous hepretinsion in cases of myoma (Mirto Ferrom and others) and the action of fluids from ovarian cyst impected into the pertioneal cavity (Auche and Chavannaz)

The elevation of the blood indican in cases complicated by kidney disease is regarded by Salvina as a sign of renal insuff cincic and attributed by him to deficient elimination rather than to overproduction George C Fivota M D

Miller H E and Tyrone C II A Survey of a Series of Myomectomies With a Follow Up 1m J Ob 1 & G 933 1 5

The author review 128 myomectomies of the Sp patients who had menorrhaga before the opera tion 9 per cent report that the duration character and amount of the menstrial flow have been en tirely normal since the operation. Dysmeopriheas courred in 5p per cent of the cases but persisted been no report of postoperative pain or pelvic di comfort since the operation.

The number of fibroids removed ranged from one large subpentoneal or interstitual tumor to 3g growths representing all types. In cases of single goods it it practically always possible to remove the growth and restore normal function of the uterns even. ben the tumor in olves a large portion of the uterns copies or protrude into the uterna cavity. When the number and position of the growth sees state multiple extensive not ions and shen marked multiple multiple extensive notions and shen marked multiple multiple contents of the growths are considered in the growth of the growth and the growth of t

Degenerati e changes were present in 32 per cent of the cases reviewed. In 3 the patholog st found arly sarcomatous degeneration in the removed fibroid

Of the 60 patients under thirty eight years of age 41 were sterile at the time of the operation and 28 had given birth to from 2 to 3 infants Tv entv-one of these 60 later had pregnancies which vere p o bably rendered possible by the myomectomy.

The total number of momentomies perfo med during pregnancy was 7 Myomectomy was done during the course of pregnancy only when an acute addominal condution had ansien from degene atton in a growth as the result of strangulation of the culation embods mor towating of the pedicle. The technical difficulties of momentomy are greatly increased in pregnancy, particularly if the growth o growths are situated near or o or the placental maphatation. In 5 (approximately 11 per cent) of the 7 cases citted the P sgnancy continued to term after the operator.

The number of patients who returned for treat ment after the myomectomy was 8 Five were

found to have a recurrence of menorrhagia resulting from generalized sclerosis of the uterine muscula ture. Of these 3 were treated by hysterectomy and 5 by radium irradiation. The time between the myomectomy and the recurrence of symptoms requiring treatment ranged from three to ten years.

In the entire series of 128 cases there was only 1 death the operative mortality being therefore 0.7 per cent. The death was due to acute dilatation of

the stomach Acute obs

Acute obstruction of the bowel occurred in 15 per cent of the cases during the patient s stay in the hospital and subsequently as a complication of pregnancy in 0.75 per cent. Chronic partial obstruction occurred in 0.75 per cent.

EDW RD L CORVELL M D

### ADNEXAL AND PERIUTERINE CONDITIONS

Chesal M. Mayer L. Dejardin L. and Mayer C. Experimental and Clinical Re earches on the Use of Ovarian and Uterine Grafts (R. che ches expérimentales et la ques sur l' that des greffes do a e et dut rus) B. elles éd 033 Nu 1358

The authors carried out experiments on twenty six female dogs to determine the fate of autogenous ovarian grafts after (1) blateral oophorectomy with conservation of the uterus (2) blateral oophorectomy and hysterectomy and (3) blateral oophorectomy and hysterectomy followed by the implantation of autogenous uterine grafts

Small thm slees of ovarian cortex were implanted into the bdommal wall. The autogenous uterine grafts consisting largely of endometrium were introduced intramiseusinj in another part of the abdominal wall. The animals were sacrificed and hological studies were made of the grafts fifteen thirty and ninety days after the transplantation in all but two cases the grafts healed without in fection. From their findings the authors draw the following conclusions

I Intramuscular autogenous ovarian grafts in the female dog remain viable

2 Autogenous ovarian grafts after hysterectomy develop follicular attesia. At the end of minty days the primordial follicles shown to signs of maturation Honever the germinal epithelium develops epi thelial tubes in which a number of newly formed ova are demonstrable.

3 Autogenous uterine grafts undergo cystic glandular degeneration of the endometrium but at the end of a month a number of normal uterine glands remain

4 The vitality of autogenous ovarian grafts appears to be increased by the presence of autogenous utering grafts. The follicles undergoing after ia show lutenization of the theca. After from thirty to mnety days numerous primordial follicles persist some of which show signs of maturation.

On the basis of their findings in animals the au thors have performed ovarian and uterine grafting on twenty six patients a nee October 103. The procedures is ere as follows autogenous ovarian grafting with preservation of the uterus sixteen cases autogenous ovarian grafting after estimation of the fundus of the uterus four cases autogenous ovarian grafting after otal or subtoil its viewercomy, nine cases and autogenous ovarian and uterine grafting after total bysterectomy nine cases.

The ovarian grafts consisted of minute pieces of the ovarian cortex. They were placed beneath the aponeuros of the rectus abdomins or subcutan coust, in the intermammary groose. Absolute hermostasis is essential to growth of the grafts.

The authors cite the case of a young girl who menstrated regularly four months after bilateral o phorectomy followed by the grafting of a small portion of autogenous ovarian corter. In cases in which the uterus was removed the authors rehed upon the subjective symptoms in judging the symptoms of the artificial menopause were noted for three months after operation and graftin but sub equently ceased. They attribute the symptom matic benefit to the endocrine activity of the graft which became attached. The uterine grafts headed ribout complexitions (see particular expenses of the control of the contro

The authors draw the following conclusions

1 When bilateral salpingo-ophorectomy must be performed the uterus should be pre e ed ben possible and auto enous ovarian grafting should be done. Menstrual function can be preserved by this means in o per cent of cases.

2 Defundation of the uteru plus o arian graft ing should be performed whene e conservation of the entire ute us is impossible

3 Autogenous ovatian grafting after total or

subtotal h sterectomy and bilateral cophorectomy reduces menopausal symptoms 4 Subcutaneous endometrial grafts a e harmless

4 Subcutaneous endometrial grafts a e harmle in non infected cases H old C Wick M D

Moulonguet P B ocq P and Gib rt P Utero
Adnexal Tuberculos s (S r l tub rc los té o
ameriell ) 60 & 6 b 1 955 vs 1 46

MOTIONGUET IN d. cus ing the clinical aspects of utero adneral unberviouss a says that the mills le ions are probably acquired at an early a e and le those in the lungs remain latent until for some reason they become act ated. Gental tubercu loss is usually secondar, to a primari focus in the lungs from which the organ sms reach the gental tarct by way of the blood stream Gental less ons latent since early childhood become activated during the period of serual activity, the ract atous being favored by the sex act menstrustion gental infections (especially gonorflora) and pregnancy.

Three clinical varieties of pelvic tube culos s are recognized (1) tuberculosis of the cervar (2) tuber culosis of the body of the uterus and (3) tubercu

loss of the uterine adners Adneral tuberculoss i of the following four types (i) tuberculous sal p gits with peritonitis and assites (a) tube culous salpungits with fibrocaseous peliviperitonitis (j) isolated salp agits or cophoritis without peritonial involvement and (i) pelvic tuberculosis associated via tuberculosis in other parts of the body

While sterility is common in women with pelwe tuberculous pergancy is not impossible Preg nancy 1 h gibly under able as it activates latent lessons and transm son of the infection to the fetts may occur although it a unusual. The days with the properties of the properties of the control of the properties of the properties of the control of the properties of the properties of the protent of all cases of salungities a due to tuberculous

BROCO discusses the surgical treatment of uteroadnexal tuberculosis. He states that the immediate and late mortality of this treatment ranges from o to 17 per cent The operations performed in cases of adnexal tuberculosis with or without utenne in volvement include simple exploratory laparotomy partial remo al of the adnexa and radical emoval of the internal genitalia Radical removal in cases of advanced tuberculosis h s a high immediate mortality and morbidity and is often followed by late complications and death. Simple expl. ratory lanarotomy and conservati e operations have fre quently resulted in cure especially when they have been followed by appropriate medical treatment arradiation or heliotherapy. When the tuberculous process is confined to the cervi p eliminary biop y 1 essential for diagnosis Amputation of the cervix total hysterectomy curettage followed by thermocauterization or chemical cauterization, and radium therapy ha e gr en good results. In cases of tuber culous endometritis diagno tic curettage may favor d semination of the lesions therap utic curettage is of doubtful value and hysterectomy offers the only chance for on e

The most common pre-ope attre complications of chron c pelivic tuberculosis are acute exacerbation of the infection secondary infection and spontaneous fistula fo mation. The postoperait e complicat ons saide from those unmediately following the operation (shock harmorrh ge intestinal obstruction) are due to damage to adjacen torgans (bladde intes

t nes) with esulting fi tula formation

Gibert discusses the phisotherapy of uteradneral tuberculoss. This type of treatment in
cludes natural and artificial heliotherapy and irradia
to m with the Vaps and radom. G bert is of the
opin on that when applied in ad anced cases of pel
victoberculoss afte explor for laparotomy drain
age of acates and cold abscesses or partial signal
removal physical apy will gue esults much sipe
irror to those of radical surgery. The probability of
our is increased if the phys otherapy is given
both before and aft surgical interent on Irradia
to mith the ultravolet rais or heliotherap com
bined with climat therapy should be tred first and
orentigen therapy used when the other methods fail

Treatment with the ultraviolet rays results in cure in from 40 to 50 per cent of cases amelioration in from 30 to 35 per cent and failure in from 15 to 20 per cent Its action is quite superficial For deep lesions roentgen therapy is indicated. The roentgen rays produce their effect not on the tubercle bacilli but on their habitat. They lestroy the surrounding leucocytes and produce immunity through the liberation of immunogens. In a littlen they pro voke an intense connective tissue reaction thereby walling off the organisms Radium has a much smaller fel i of activity and is applicable only if the lesion is I mited to the cervix. The best results are obtained when all available meths is of physioth HAROLD C MACK M D erapy are combine !

Schulze M. Cranulosa Cell Tumors of the Ovary Im J Obt -C c 1933 XX 1 f27

( ranulosa cell tumors of the ovary are not so rare as was formerly suppored. The author reports four cases in letail

These tumors are frequently mistaken for medul lary carcinomata and even for sarcomata and en lo thelomatally those n t familiar with their charac The pathol gical diagno is is not very difficult if their characteristics are kept in mind

Three main histological types are recognized the f Il culm I the colin fromator I and the sarcomator I Frequently two or all three of these types are found

in different areas of the same growth

The clinical diagnosis may be easy before puberty or after the menor ause but is difficult furing active sexual life. A careful study of the patient from the en lerine standpoint will prove of great at 1 in the pre operative diagn sis as well as in the postoperative progn st. There is lefinite evidence that the tumors elaborate the ovarian follicular hormone an i possibly in a me cases the lute n hormone also. It is pr 1 al le that the follicular hormone tests will become as important in cases of granulosa-cell tumors of the vary as the Aschheim Londel test in cases of chononer (thehoma

( ranul sa cell tumors of the overy are usually un lateral and comparatively benign 1s a rule simple excise n of the tum r is curative. Therefore it is mo t important to make a pre-operative or at le t an perati e lugnosi as this allo vs of consery tim in the cases of young women. In the cases I w men pa t the men pause complete removal of the pelvi rgin. is preferal le if the patient is a g soil n 1 In the rare cases in which complete removal of tle tum r is imposul le postoperati e radiotheraps will pr falls increase the chances for cure

I tw to L C TLL, M D

### EXTERNAL GENITALIA

Stein & Disea exof the Vulva 1 m J 1 g 1933

ulas subject t my cotic infections. The most freq ent infect is of this type are die t m ml a These infections are often a sociated with

Mycotic infections of the vulva have been classifed by Le Blaye as follows (1) creamy sulvitis resembling oral thrush (2) olcerative vul sitis (3) pseudoleucoplakie vulvitis (4) eczematous vulvitis without an exudate (5) pruntus with an inflammatory reaction and erosions due to scratch ing and (6) vesicopustular cutaneous forms. In all of these types of my cotic vulvitis the diagnosis de pen is on demonstration of the organi m in the lesions.

Tuberculosis of the vulva is rare but various forms of lunus have been described Lipschuetz has distinguished the follosing three

types of acute ulcer of the vulva

I Cangrenous ulcers developing suddenly on the outer genitalia in association with burning pain fever and chills The ulcers sometimes perforate the labia minora

2 \ energyl ulcers at the labia minora and in the vagina These ulcers are sharply defined not so deep as the gangrenous ulcers very painful to the

touch an I not accompanied by fever

Miliar ulcers no larger than a ninhead These always occur in combination with the venereal ulcers Bacillus crassus is found in the smears in almost pure culture

The chreate type of ulcer of the vulva formerly known as esthiomene is believed by Stein to be a manifestation of tertiary lues. Lathologically it shows changes characteristic of gumma Histo logically a syphiloma consists of a collection of round cells closely resembling the cells of inflam matory neoplasms with scanty blood vessels. The affected to sues like all gummata un lergo proces es of necrosis and cicatrization with contraction of scar tissue According to Kehrer the factors in vol ed in the production of esthiomene a chronic ulcer of the vulva with secondary elephantiasis are I Injury to the tissues especially the smaller

arterial vessel due to a previous syphilitic infection 2 D latation and stasis in the veins due chiefly

to exual disturbances and excesses 3 Functional blocking of the regional lymth

glands lue to inflammation 4 An ulceration on the tissues thus predisposed

which may be lue to any type of bacteria but is caused most often by the tubercle bacillus secondary importance are gonococci streptococci staphyl scoces and Ducrey s bacillus. The rants of this c n lition is explained by the multiplicity of factors required f r its development Joachimovits described a form of chronic ulcer

of the vulva with elephantiasis. In Java he saw seventeen cases of this condition in two month ome of the patients had demonstralle syphilis t ut there a as no evidence to ind cate that the vulvar lesion it elf was of a sigh little nature. The spirochates of a philis w re not foun! the hi tological change were not characters uc of syphils and arsphen mine treatment was without effect. The cond to n was a fusospirochartosis due to a symbiotic infection with spirochates and fu if rm b cilli

In chronic hemorrhagic vulvitis five cases of which have been reported histological examination shows chronic inflammatory changes with hæmor rhagic infarcts

Fi e cases of Paget's disease of the vulva have been reported in the literature

Primary venereal lesions—the typical chancre the soft chancre or ulcus molle and gonorrhoral lesions—may occur on the vulva They are usually found in the region of Bartholin's glands

Venereal granuloma ulcerating granuloma of the pudenda or granuloma inguinale when it occurs in women usually involves the vulva. The so called Danavan bodies.

Donovan bodies are now regarded as the etio logical agent in granuloma ingunale and can be demonstrated in the lessons in practically every case. The most effective treatment is the intravenous adm instration of tartar emetic.

Pruntus vulvæ occurs in many diseases of the vul a For local treatment in the case of diabetics Stein advocates cleaning of the parts with oil and the application of an ointment with a lanchin base containing occanie menthol and salicylic acid Auteous and alcoholic solutions should not be used

Recent reports and sandans sound not seeker. Recent reports indicate that knurosas is a later. Recent reports indicate that knurosas is a later that the seeker see

Fibrosarcomata of the vulva are rare Fibromata of the vulva usually organate in the subcutaneous connective tissue Lipomata mvzomata papillomata sweat gland tumoro or hidradenomata and benign cystic tumors also occur in the vulva Adenofibromata of the vulva containing utenne gland and stroma and adenomy omata of the vulva have been reported

Vulvar sarcoma is rare but extremely malignant Carcinoma of the vulva is more frequent and of more clinical importance than sarcoma but is rare in comparison with carcinoma in the internal genital organs It is extremely malignant although it occurs as a rule in older nomen. The primary tumor de velops most frequently in the labia majora and minora and the clitons. Metastases are usually limited to the regional and lumbar lymphatics. The glands in the groin are involed in most cases whereas the thac and hypogastric glands are affected less frequently Invol ement of the adjacent skin and the mucosa of the external genitalia results in Involvement of the so called contact cancer external inguinal gland repre ents the first stage involvement of the deep inguinal gland the second stage and involvement of the external iliac hypo gastric and obturator glands the third stage of can Cerous invasion

Kentschler is of the opinion that in cancer of the vulva wide excision of the local growth with excision of the superficial and deep inguinal nodes on both sides whether they are enlarged or not and supplementary radium and roentgen ray irradiation is the treatment of choice unless metastases have de veloped or the malernancy is of Grades 3 or 4 Under the latter conditions excission of the local growth followed by radium and roentgen ray ir radiation over the site of the local growth and the

lymphatic drainage is preferable.

Recent studies having ind cated that leucoplakia is a precancerous lesson vulvectomy should be done in cases in which permanent leucoplakia or kraurotic changes have developed. CRARIES BARO WD.

Grabcenko I Cancer of the Vul a According to the Material of the Oncological Institute (Der k b d Vul n h d M t mah n de O kologischen Instituts) Z 41 f 1033 h 33

The author estimates that extranomate of the vulva constitute 1.47 per cent of all malignant tumors in women Among 1.12 cases of multipant tumor of the female gential organs observed in a period of five years there were 61 case of white actrinoms. The condition was attributed to pruntus vulve in 53 28 per cent to leucorrinea in 0.58 per cent to conditionate in 8 to per cent and to curvmes in 16 aper cent 1 in 2 87 per cent of the cases no discase of any sort was present before the cases no discase of any sort was present before the syphilis tuber ulous frequent childrents and leecooplaks are not caused or vulvar carrinoms.

The lesion was located most frequently on the labia majora and less often on the clitoris labia minora urethra posterior commissure and Bartho-

hn s glands

Some of the lessons were cauliflower papillomats others diffusely indiffrating nodular tumors and others crater like tumors. In 3 cases there were contact implications. The suther divide, the cases into the following 4 groups (1) movable tumors without metastases 11 cases (2) movable tumors with onvable inguinal glands 30 cases and (4) non-white inguinal glands 4 cases and (4) non-white tumors with non-who in movable tumors with non-who in movable tumors with non-movable tumors with non-movable incumal glands 14 cases

The cases of Groups 3 and 4 were looked upon as hopeless and consequently were not treated. Of the cases in the other group 5 were treated with radium 7 by operation with the kn.fe and 31 by electroe cision. In the cases of the first group the ingu nal glands were not removed. In 3 cases radium needles were inserted around the tumor In only of the 3 cases of precarcinomatos s of the urethra was there permanent healing. In the 2 others further treat ment with surg cal diatherm) was necessary One of the patients died of recurrence and in tastases seven months after the treatment. The other developed a recurrence after ten years and again after three and a half years The recurrences we et eated by electro-excision The patient has now been free from recurrence to one and a half years One patient treated by operation has remained free from recurrence for five years and three months Of I

patients treated by surgical diathermy: a died of sepsis and another one and a half years after the operation of apoplevy. Two patients have been free from recurrence for one year and four patients for one and a half two and a half three and five years respectively. One patient failed to report. All of the patients how alive are free from recurrence.

In Group 2 2 cases were treated with radium In s of these the inguinal glands were removed but death resulted from recurrence at the end of eight months. In the other in which the glands were not removed death resulted from recurrences and metastases at the end of seven months Six patients were treated surgically all with removal of the inguinal glands. Of these I died of sepsis I has not reported 3 died of recurrence and metastases after from one to two and a half years and 1 is living and free from recurrence after three and a half years Eleven patients were treated by electro excision of the tumor and the glands Of these 3 died after from six to twelve months 3 after one and a half years and a after two and a half years and 4 are alive and free from recurrence after one year one and one half years one and one half years and three years respectively. Of 10 cases of the group in which the glands were not removed death occurred after from one half to one and one half years in all

The author prefers electro excision to other methods but believes that the method of treatment is of less importance than the time that the treat

IRMA PIPERS (G)

ment is given

MISCELLANEOUS

### MISCELLANEOUS

Collip J B Selve H Anderson E M and Thomson D L The Production of Estrus The Relationship B tween the Active Princi ples of the Placenta and Pregnancy Blood and Urine and Those of the Anterior Pituitary J Am M 131 1933 G 553

The authors refer to the hormone present in human blood and unne during pregnancy and in the placenta as the anterior pituitary like hormone. They do not behere that it is identical with the ovary stimulating substance present in the anterior lobe of the pituitary gland. When administered to hypophysectomized immature rats very young sucking rats and guines pigs this anterior pituitary like goined stimulating substance causes merely the formation of the authors therefore conclude to the them to the presence of a complemental to does so by virtue of the presence of a complemental substance produced by the pituitary gland of the stat main. Hospitalis of Destruction and the stat main.

Brouha L The Experimental Bases of the P oblem of the Artificial Men pau e (L s b se v périm nt l s d p blèm de l mé pa se p o q ée) Gy é es bas 933 x 243

Animal experiments have shown beyond doubt that the cestrus cycle in mammals has two phases

tion of these phases is variable. The follicular phase is determined by the ovarian follicular hormone and the lutern phase by the internal secretion of the corpus luteum Surgical castration suppresses all anatomical and physiological alterations charac teristic of the cestrus cycle Irradiation may pro duce complete castration effects not distinguishable from those following bilateral salpingo oophorec tomy Partial suppression of ovarian function by irradiation may produce sterility but permits the continuation of follicular secretion so that the animal shows no castration symptoms. Surgical removal of as much as four fifths of the ovarian tissue does not produce castration phenomena as the remaining tissue regenerates and assures normal function Removal of the corpus luteum shortens the cestrus cycle but does not suppress any sex ual phenomena According to the author's experi

mental findings but contrary to those of Watrin

and Brabant hysterectomy does not affect ovarian

function Castration symptoms respond to specific

treatment by ovarian grafting or the administration

of the ovarian follicular hormone When the graft i successful all anatomical and physiological char

acteristics of the cestrus cycle are restored. The

the follocular phase and the lutein phase. The dura

duration of a graft depends upon its vitality.

The follicular hormone is the true female sex hor mone. Its adm instration in suitable doses corrects the symptoms of castration. The corpus lutium is merely a gland of gestation. Its hormone is essential for completion of the normal cycle and the preparations for indation of the lertilized ovum and its subsequent development. The administration of the corpus luteum hormone has no effect upon castration phenomena. In castrated primates the injection of the follicular hormone may produce men struation.

Van Cauwenbe ghe A Treatment of Symptoms of the Artific al Menopause (Trait m nt des troubles de la ménopause proquée hez la femme) Gynte et bl. 1933 xvii. 266

Symptoms of the artificial menopause resulting from surgical castration are chiefly vasomotor or theumatoid and usually respond well to endocrine treatment. When they are nervous or psychic their amelioration by treatment is problematical. Treat ment with the owarian follicular hormone gives good results under the following conditions.

When the treatment is begun as soon as possible after operation
 When the patient is not too young

When the patient is not too young
When it is possible to administer small doses

at frequent (three day) intervals especially at the time corresponding to the usual period of men struction

4 When it is possible to admini ter the folliculin intramuscularly rather than by mouth 5 When physiotherapeutic and psychothera

peutic measures and tonic medicaments can be administered in conjunction with the opotherapy

7

# INTERNATIONAL ABSTRACT OF SURGERY

Menopausal simptoms following irradiation are arenopausar symptoms tottowing traditation are mainly less severe than those of surgreal castration isuany less severe than those of surgical castration if the irradiation is carefully carried out in fract onal is the HTRUMATION IS CARCIUM) CARRIED DUS IN MALL QUAL doses. Under such circumstances endocribe products. gases under such except in severe cases

The De elopment sch. If and Hoffmann U. The De elopment of Genital and Prioneal Tuberculoss in the Hirsch H and Hoffmann U or Lenuar and r r tonear ruberculos s in the Fernale n Primary Infection of the Digesti e Female and the importance of the Retrograde Lymphogenic Pathway of Infection (D. In kuon des

Lymphogenic Fatnway of intection (L) st h n d r ne blich n G n tal und Pent tuberhulo e he primate lini kuon des retroctaden in Lanales und d B d utung des retroctaden in Lanales und d B d utung des l'h f Gynaek tuberkulo e be primae hmph genen Inf knows ges)

15 mph genen Inf knows ges)

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The authors discuss the problem of the origin of tuberculous of the female genital organs in general tunerculous of the fedure gental organs in general and of the fallopus tubes in particular on the basis and of the fampling thoses in particular on the basis of animal experiments and eraminations of infants of animal experiments and eraminations of infants in bodied as the result of accuration for immunization by the declaration of Hegar that it an against tuberculous. The theory of Hegar that the against tuberculous and the same against tuberculous and the same against tuberculous and the same against tuberculous. bumask dentist inperculosie is tejati. eji tiedneur ie imu akanise (inperculosie is tejati. eji tiedat imi The authors call attention to the todas rejected the authors can arreation case of fact that to date no absolutely certain case of primary tuberculosis of the female gentialia has been reported and that it is a matter of contro error today rejected separtes and that it is a matter of contro erry shether—with the exception of tuberculosis of the

n a—such a community prossible of the female Secondary tuberculous infection of the female And 3-2ncy a Condition is bossiple

Infection by continuity is infection of pre genitalia is of the following types aniceton of continuous to aniceton of pre-

2 Infection by contiguity or intracanalicular culous tissue

3 Lymphogenous infection (chiefly from the in Hamatogenous infection from 3 more or less metasta 1

The majority of investigators bel e e that tuber testines) remote tuberculous focus

culous infection of the female gen tabla occurs most often by the hematogenous route spereas Ghon otten b) the mematogenous mute whereas studies Affa Lahm Franque and others bene e that the Adaba Lannu Clanque and Orine's ocur c (1814 the fallopian tubes become in ol ed most frequently, fallopan tubes become in of ed most incurrent from the perforeum earth all in estigators are of the opinion that the lymphogenous organ 1 of sec. une by man that the symbol can the basis of animal experience of the control of the basis of animal experience. oneary importance piccus ine easis of the possibility anicular Mandala Mas Camera scientinia to the possibility of a retrograde lymphogenous extension of tuberque or a recrostranc symphosecums extension or covered los a and in of ement of the gentral track by this

The anthote pane attempted to enbblement the experiments of Baldes by lurther experiments along experiments of parkage of further experiments atoms of the same lines. In accordance with the direct ons of the same mess an eccumance was unusual by made by Bakars the root of the mesentery, was e posed by Defacts the first of the mesculery was a posed by laparolomy a four adult tensale rabbits 0 2 cm of the mescale based by the mescale by the mescale based by the mescale by the mescale by the mescale based by the mescale by the mescale by the mescale based by the mescale by th route a suspension or viturite concrete unama superior in one of the mesentene lymph nodes and the point of while it was the secretary with a hot needle. In two other meeting authorized with a hot needle. In two other meetings are marked with a hot needle. unfection escribersker nam far at being on was infected animats o 3 ceni of the ingu nal lymph nodes

sults showed the predominant importance of hama suns showed the predominant importance of hama togenous extension of the infection. In all of the togenous extension or the micricon of the tuber colosis occurred. In fig. there was in addition a cuccunsciped bettlenest inpercapeas with inpectes in the uterine seriosa. Only the periodical tubercu losts could be considered the point of origin of the secosal inpeccinosis. Isolated inpeccies in the ma serosal tuperculosis assisted tupercles in the mi cosa at the abdom hal ostia of the fallopian tubes cosa at the abdom hal ostra of the animals . Accord to the authors the tuberculosis of the tubal ing to the authors the tubercubsis of the tubat mucosa in both of these an mals was of hamatog chons outling of the to suitance of the injection from narrows in some of ruces, as many or narrowers bpokenons origin e on thou h the boss bill to that

programs origin e en tion is the poss on the temple ken take may develop in this manner is not denied. The experiments there this meaner 1 not believe the experiments there fore indicated that in the presence of select tuberco. fore ma carea coat in the presence at see encortain jour changes in the peritonest ca "ity the serosa of the gentalia and the mucosa of the fallopian tubes at genusus anu tue mucoss of the saltopian tuors at the abdominal ostia may become in olied by the

the automitist of the authors of the Pressured concentrations associate is necessary in applihing the findings of experiments made on animals to

To determine the origin of tuberculosis of the to determine (of origin of the authors examined the gental a of ele en female infants who d ed as the leanj, oj tnpercnjosis miminimation na Triepeer rine kenica: a oi eie eu ieurae miarie auna en as tue The fugues in the individual cases are described in renerenness minimizers in presence in a see muniques in the moi numbre cases are described in detail and summarized in tables. In all of the mants wersar ann summuserzeo in taotes in an or the injunts the tuberrulous infection introduced in the food be the traderculous infection introduced in the food be came generalized in the bold. The primary infection was generalized in the bold. The primary include courted in the interior of the infection was in city of the infection of the company of the courted in the company of the there were multuple primary infect one a fact ind

there were multiple framery mirece who a lost much the month and bhardur were in of eq in addition to the powel. In time of the infants there was tripected the mountains and hinary of weight of each made tripected the mountains and the infants there was tripected the power. los a of the Gentral organs (topes countra ateir cer tios a of the grantal organs (tubes corpus uter feet virtal wall o area portio vagina). In only fit or a feet of the tubal muto a be demon to the tubal muto a be demon to the tubal muto a be demon to the tubal muto as be demonstrated. could involvement of the rubal muco a be denoted strated. This 5 surprising as the tubal mucosa is outsieu , an s surprising as the tups microsi is infected in the majority of cases of gen (a) tubercu micros in the majority of cases of gen tai timerical losis. Especially remarkable was the frequency of kepecually remarkable was the frequency of the connect of the conn in or ement or the connect examination of the property of the genitsua e toer from the interiors properties the periodeal tuberculos s. In eight of the infants the parametrum the mesocal par o the meso the parametrum the mesosale as the special armin was in o) ed a fact indicating the special importance of the harmatogenous and imphorenous information of the that managements and a minorgenities of infection A retrograde is mphosecouster.

routes of infection a retrograde is mphosphouse and in tension of tube culosis from a short d stance and in tension of tube curous from a snort o stance south me presence of a turnances of the int acanal cular de age is regarded as possible the female general of tuberculosis fith female general coupuscus or coercurosis i co recusie secuciona from the peritoneum is secondary in importance to from the pertioneum is secondary in appropriate the 1 mphogenous and harmat genous routes spread of the infection
The stude contains file photom crographs KLMS DIERES (G)

Aldridge A II End Results in the Treatment of Pel ic Infection im J Obst G G to 1933

Adnexal di ease tend to heal spontaneously but as there is no was of foretelling hich ca es will heal and which will require operation all cases should be given palliative treatment before operation is consultered.

Of a ones of 1 oat patients treated by pall attace methods a8 per cent were either cured completed methods a8 per cent were either cured completed received for the suppose of the partial patients of the suppose and palpable path logical changes per sated after the treatment. In some of the latter operation 1 as necessary. Interest and not then per cent of the patients treated were not re-examined after their descharge from the hospital.

Operation is recommended for the chronic stage of salpingitis if palliati c treatment has failed to relieve the symptoms and for cases in which attacks causing deab lity tend to recur in spite of treatment

The practice of operating to cure subjungit in the acute stage of the infection is condemned. The author believes that nearly one half of the operations would be unnecessary, if the cases were first treated be palliative measures. He states that operations in the acute stage are responsible for an unjustifiable mortality and morbidity unnecessarily destructive surgery, and a high percentage of unsatisfactory end results.

Operations in the chronic stage even after recur rent attacks of infection yield end results which ju tify the greatest conservatism in the management of salpingitis

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Lamarque P Temporary Sterilization by Irra ila tion (La stér! t t mi ora r pa i i tio ) Gynt t bil 1933 29

Sterilization by roentgen or radium irradiation has the advantage of eliminating surgical risk and the dangers attendant upon anasthesia and scar formation For the patient who can tolerate irradia t on it constitutes a simple harmless procedure Roentgen irradiat on appears to produce its effect directly upon the ovarian follicles Radium seems to affect both the overs and the endometrium the eby p oducing is effect more rap illy Tempo rary sterilization by \ ray irrad ation was first sug gested for cases of pulmonary tuberculosis Since then its scope has been extended to include in the op mon of advocates of this method any possible indication for sterilization. The author believes that temporary sterilization does not impair the unaffected follicles or rende them unfit to pro luce normal ova for subsequent pregnancy. While the results of present day irrad ation methods are good they are far fr m perfect Irradiation dosages for temporary or perm nent sterilization are by no means fixed and equal in their b ologic leffect. In d vidual susceptibility to 1 r diati n is extremely ar able and is independent of the age of the pa tient A dosage which ill produce complete

amenoribota in one patient will not affect another of the same age Permanent castration is easily and readily obtained by the administration of a maximum single dose or by repeated irradiations Temporary sternization can be obtained in only from 45 to 50 per cent of cases by a single expo ure when a second exposure is necessary the chances of producing per manent amenorrhora are great Radium produces amenorthma more promptly than the \rays although the effect in small doses is more transi tory large doses produce permanent ovarian dam age Repeated small doses of radium irradiation are uncertain in their effects. The uncertainty of proper dosage for obtaining the effect desired is the fir i great disadvantage of the method. The dura tion of amenorthma in patients sterilized tem poranly has averaged ten months although in some cases it has ranged from thirty to eighty six months. The impossibility of predicting the dura tion of the amenorrhous period is the second great disadvantage of temporary irradiation castration HAR LD C MACK M D

Massabuau G and Guibal A Conservative Treatment in Cynecology (La thé apeutique conservatirce en gynéc log e) Cy l el b l 1933 x 1 330

The treatment of many genecological disorders whether by radical or conservative surgical measures depends upon the attitule and experience of the surgion. Recurrences of the disorder necess tating repeated surgical interventions have prompted many surgions to perform tackeal petic operations routinely at the cost of precipitating the annoying and sometimes serious synt from of the artificial menopause as well as depriving the woman of the artificial menopause and saving the child bearing function other surgicing have used only for conserva inglunction other surgicing have used only crosserva the conservation of the artificial menopause and saving the child bear inglunction other surgicing have used only crosserva the conservation of th

Opinions as to the frequency of serious climac teric disturbances vary considerably. Some gone cologists regard these disturbances as negligible and infrequent whereas others consider them serious and almost constant consequences of castration

The authors discuss in defuil the technique of various operations designed to (1) prevent the menopause and maintain utero oxairan function for possible pregnancy and (2) prevent symptoms of the artificial menopause when radical surgery in necessary. These operations are the well known procedures of unilateral and biateral salpingctoms and partial and complete hysterectomy, with preservation of at least a part of one overy maintain and partial and complete hysterectomy in the preservation of at least a part of one overy maintain the control of the control

# INTERNATIONAL ABSTRACT OF SURGERS

stress the danger of atroph) of the ovary from dam suces the danger of arrown) of the overy along the mee the age to its blood supply in salphagectom). were to the unord supply in suppose only ince the main blood supply of the o ary is derived from the 234 main phood supply of the uterine aftery in the tuboovarian pranch of the therefore recommend the ovarian arcane there is the tention remainment of the remainment o salbudectomy) durch aims to bisecte the inposospuisertum), anita ains to preserte the tubo-ovanan arcade. Normal oranan function can be ovarian arcade Aormai otarian or a portion of it breached to a in transplant is anatomically experien out a successful transplant is anatomically and functionally normal and its blood supply is in and innectionally notinal and its mood supply as in race the amount of a arian usaue preserved to prevent menoplatural symptoms need not be target as bittle as one tenth of the entire overly is sufficient, 25 title 25 one tenth of the opinion that preservation of the anthone are or the obtained that of it sings in ward taining the integrity of the retained overy through

time synergistic mechanism.

The results obta ned by various surgeous with the results out and by various surgeous with the various con evalue operations are cited from some shbeidishe mechanian

the literature. In the teleoure of conservant e obers the necessary in the scholle of conservant e operations the average mortality rate is given as 2 3 per rious the average more than that following radical procent which is lones than that innumbed tanks him cedures and the operations are said to do per vented menopausal symptoms in from 74 to 9 per vented menopausal symptoms in from 74 to 9 per cent of the cases. Howe et a cute resulted in an real of one cuses sione or a cure resulted using the cuse of the cuses whereas are respected of the cuses whereas a cure cuse of the cuses whereas a cuse cuse of the cuses whereas a cuse cuse customers are customers. after radical operations the incidence of cure was ance causes operations are incorner or one was \$87 PPE cent of the cases. obstated on conservatively subsequent surfaces interventions were required

The success of free and pedunculated grafts can obtained definitely one surgeons (among ot be stated definitely) The success of tree and peduncuated graits can not be stated definite). Some surgrous (amough them Cotte) days that they are successful in ? inem Lotte) claim that they are successful in 7 per cent of cases while d Allaines belie es that they merely relie e menopansal symptoms The dura merely reme e menopausa symptoms the duration of viality of a graft is usually considered to be tion of vitality of a graff is usually considered to be very brief although Cotte and Tuffier report cases very priet authough corte and there's years respect, ely of activity of eight and twelve years respect of the As a rule endeace of ecrotory activity of the As a rule endeace of ecrotory defore the second section of the section of

In the choice of conservative or radical surgery erance avery cannot be emplantation or third month after the implantation it is necessary to take into account the age, health and social economic, and marital status of the pa and social economic, and mantal status of the pa the part of the p snown ne ascernance never operation out use t be of operation to be performed should not be decided or operating to be performed should not be because upon until the pelic organs are inspected during abou mm rue bei se osesses sie mebecied mises iaparotomy Non surgical treatment (dashermy) by dotolherapy yaccounterapy) he e given such yaccounterapy by the surgical treatment of the polycocontent of the polycocontent of the base have been been freshed or out then good results in petite intections that surgery is not instified until they have been faithfully and experienced until they have been faithfully and experienced until they have failed to reach the faithfully employed and have faithfully employed and the faithfully employed and have faithfully employed and and have faithfully employed and have faithfully employe Symptoms In some cases of sciency, sic ovaries, ayanyuma an some cases of sciency such ovaries proenteen irradiation in small dozes should be used roentgen irradiation in small dozes should be used in Dreference to surgery. The authors had eached an arrangement to the conservance of the conse conservative treatment with surplus our mounts is supplianting radical treatment but they cauting is and surface in all cases at the carming of the carming the adolption in all cases at the carming of the carm to the indications

### OBSTETRICS

### PREGNANCY AND ITS COMPLICATIONS

Ko åcs F Some Unusual Cases of Ectopic Preg nancy (Ueber ein e henere F lie von ekt pischer Schwan erschaft) Zisch f G b ish u Cy ek 933 cu oo

Not only the number of extra whence prognances in general but less the number of unusual forms of sciopus pregnancy has definitely increased in recent para. Of the 2 naj patients treated in the University Gjaecolov-cal Clinic of Debrecen during the last set as 7 (23 per cent) had an ectopic pregnancy. The author reports a unusual cases of ectopic pregnancy which were found among the 52 cases of this condition (16 5 per cent of the 57) which came to laboratomy.

In the first case reported by Kovacs there was an intriligamentous pregnancy which had gone beyond term and was apparently the result of a primary ovarian pregnancy. The fetus was dead when the oman came to the clinic The Aschheim Zondek reaction was negative. A chill of short duration and lever occurred once Palpation of the cavity of the uterus following Hegar dilatation showed the uterus to be empty 4t iaparotomy a dead intraligamen tous fetus was found. The ovary was absent but the fallopian tube was intact up to the extreme abdom malend Removal of the fetal sac and of the placenta was strikingly easy and bloodless. This is explained by the fact that not only the fetus but also the chorionic villi had died off long before as was evident from the negative Aschheim Londek reaction

From this case and a review of the literature the author draws the following conclusions

Ectopic pre nancy may be earned without dufficentual diagnosis between o endue intra utenne and extra utenne pregnancy the hardness of the cervix the absence of a discharge and the often difficult platory evidence of the utenne body are distinguishing features. Fluoroscopic estamination is of value only when tilling of the utenns with a contrast medium is possible and this may be dangerous hen an intra utenne pegnancy is present. The

best procedu e as dig tal palpation, of the uterus in advanced ectopic pregnancy with recent death of the fetus should not be tracked surgically with out definite underat in smill there is evidence that the placenta is also completely dead that is until the aschbern 20ndek reaction is completely negative. E en when the fetus is alive operation should be delaxed until both the letus and the placenta are dead even though this may necessitate considerable delay of delivery. The operation will then be rendered easier because there will be less danger of homorthage and the possibility of a conservative

procedure will be increased \s a result of the sacrifice of the fetus (the viability of which is at best very doubtful) there is preserved to most younger women the possibility of later normal premancies

In the second and third cases reported by the author there was a superficial ovarian pregnancy. Photomicrographs made in both cases show a distinct layer of ovarian stroma between the corpus luteum and the site of implantation of the ovum in such cases rupture occurs very early because a part of the embryo is covered only by the ammotive membrane. If at this time none of the larger vessels is eroded the ovarian pregnancy escapes recognition a fact explaining the searcity of reports of this condition in the literature. Ovarian pregnancy may perpose sufferently loosened in the curring softeness to be washed out immediately. It is possible that the organization with cold to the sufferent washed out immediately. It is possible that the organization of the curring the second cold that the organization of the curry of the cold that the organization content of the curry of the cold that the organization content of the curry of the cold that the organization content of the curry of the

The fourth case reported by the author was a case of very early tubal pregnancy without any externally apparent changes in form. The patient was admitted to the hop tatle for severe internal. harnor rhage and 1 600 c cm of fluid blood were found in the abdominal ca nly. The source of the harnor rhage could not be discovered. The tubes and ourses were absolutely free from changes. However as the other abdominal organs could be eliminated as sources of the bleeding both tubes were extrapated for the sake of safety. On section of the tage was found to be the implications of the sake of safety of the sake of safety of the sake of the sake of safety of safety of safety of the safety o

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Essen Moller E Experience and Viewpoints With Regard to the Management of Placenta Prævia (Erfahru en u de Ge cht punkte ur Præviabe h ndl ng) 4 fo obit t gy ec S d 1933 xm

Essen Moller reviews his results in 245 cases of placenta previa and hi theones regarding this condition which are based on an experience of thirty five years Of the cases reviewed only 18 per cent were those of primparæ (who constitute 466 per cent of the authors o botterical patients) a fact showing the increase in the incidence of placenta previat in multiparæ. The cases are divided into 2 groups (r) 158 cases of lateral placenta prævia the diagnosis made when both placenta and membranes can be palpated through the partially dilated cervix and (s) 87 cases of total placenta prævia the diagnosis made when only placental itsisue can be palated. The author rejects the differential terms pated.

marginalis and centralis as he regards them as unnecessary from the choical standpoint

The treatment of placenta pre na may be obstete road or surgical in obstetrnal treatment the attempt is made to control the bleeding by compressing the placenta against the uterine wall until distation of the cervax will permit vaginal deliveral in the surgical treatment the labor is terminated immed ately without boal measures to control the bleeding. Obstetrical treatment includes such measures as a gnal tamponade artificial rupture of the bay of waters. Bration Hicks version and metreurysis Surgical treatment includes abdonunat and vaginal cargarian section.

During his thatty five veers of practice the author has gradually modified his view regard ag the treat ment of placents pre as During the first half of his period he employ of Bratton Hicks version 5 times more often than he performed cu-acton section whereas during the last ten years he performed cusarean section 1 times more often than he used Bratton Blicks version. The frequency of vaginal factor Blicks version The frequency of vaginal of the membrane une cases of lateral placent previa remained constant throughout the herods

Of the 215 cases reviewed delivery wa effected b was of the varing after artificial or spontaneous moture of the membranes in of (30 3 per cent) with only I death a mortality of 1 of per cent. The death s as due to acute anæmia. In 2 cases in which podalic version was done there were 5 deaths and in 6 cases of breech presentation in which a foot was pulled do in through the cervix to control the bleed ing there was a death the total mortality in these 78 cases being therefore 6 per cent Abdominal cæsarean section performed in 33 cases resulted in t death a mortal ty of 33 per cent and vaginal caratean sect on performed in 33 cases resulted in a deaths a mortality of o per cent. The total mor tably for both types of casatean ection was 6 of

per cent. The fetal mortality in cases of vaginal delivery after spontaneou or artificial rupture of the membrane was 40 per cent in those to with first ton Hicks ver ion was done 64 per cent and in those in which examena section was performed 17 per cent. If the death of non wilder large to the matterly and account of the mortal ton performed 17 per cent. If the death of non wilder large to the matterly and account of the hospital are not in laded the international to the hospital are not in laded the international to the hospital are not in laded the international to the hospital are not in laded the continuous states of the mortality was 0 per cent in the cases of wignal delivers (of the membranes 5, 5 per cent in those of Bratton Hicks er ion and 3, per cent in those in which expansion section was ione.

Following a discussion of the various method of treating placents pre-rail the author reviews his current practice. He has eatirely abandoned the use of vaginal tamponade as he considers it not only ineffective for the centrol of harmorthage but also dangerous through the atroduction of infection. He has no er employed the metrumynets as he does

not consider it superior to Brazion Hicks version He states that in cases of lateral placenta præ 12 with palpable membranes artificial rupture of the membranes usually pro es adequate. In cases of total placenta prævia Braxton Hicks version offers a less favorable prognosis for both mother and child than exesarean section. Howe er it is still indicated in cases of fetal death and cases in which delivery tutist be accomplished in the home. Abdominal exsarean section offers the best prognosis for both the mother and the child in properly selected cases but the author strongly condemns its use in all cases lamnal casarean section should be done only in extremely urgent cases in which it offers the most rapid means of delivery and in cases in which infer tron contra indicates the abdominal operation

The author emphasizes that no single method of treatment is applicable to all cases. The proper treatment in a specific case can be determined in a specific case can be determined in a specific case can be determined as a specific case can be determined to a specific case and the cond to of the fetus have been carefully considered. In every case in which play entain pre- a is suspected the woman should be hospitalized.

H ROLD C MACK MD

Paucot H and Reeb V The Surgical Treatment of Higmorrhages from Low Implantation of the Placenta (Le traitem at chiru gic 1 des hémor bagges par nse tuon du place ta u le segme 1 inférieur C nf. 1 obt. 1933 xx 111 07

The authors describe a anatomical varieties of low implantation of the placenta

1 Secondary placents præ 12 in which the major portion of the placents is normally placed but sev eral cotyledons encroach upon the lower uterine segment. This is the most common variety.

2 Primary or isthmic placenta prævia most al ways central in which the entire placenta occupies the uterine i thmus

3 Isthmic cervical placenta prævia in which placentation at the isthmus encroaches upon the cervical canal extending sometimes to the external os

4 Placenta prævia reflexa d e to persistence of the sills of the chorson fr ndosum at the lower fetal pole

Recause of these topographical varieties of platential inflatation the aired pathological tissue changes which they produce and the diversity of their clinical leatures (such as the device of sect ondars anamia the perceasibility) and length of the cervar the presence of inflection and the airbid of the feture in oungle obstetrical or suggest procedure is applicable to all cases. The treatment must be adapted to the adividual case. Complete elect casm is possible city, when the patient hospitalized on a fully-rjumpped obstetrical service. Two general types of treatment are possible.

5 Obstetrical treatment wh h includes artificial rupture of the membrares the insertion of a dilatable bag B axton Hicks erson accouchement force and the procedure of Delmas

z Surgical treatment which includes the classi cal low and Porro casarean sections and vaginal histeratomy

Of the obstetricians cited by the authors 8 or per cent employ obstetrical methods most fre quently In 1 724 cases treated by these methods the maternal mortality was 7 82 per cent the ma ternal morbidity 34 06 per cent and the fetal mortality 51 per cent. The mortality of the in dividual obstetrical methods was as follows rup ture of the membranes followed by spontaneous delivery 2 to per cent intra uterine insertion of a bag \$47 per cent Braxton Hicks version 13 72 per cent version and extraction or forceps delivery after advanced dilatation of the cervit 13 57 per cent and Delmas procedure 10 86 per cent rupture of the membranes the maternal morbidity was only to per cent as compared with approxi mately 30 per cent after other methods

The fetal mortality after the individual obstetri cal methods was a follows rupture of the mem branes followed by spontaneous delivery 34 5 per cent intra uterine insertion of a bag 62 2 per cent Bratton Hicks version 83 6 per cent version and extraction or forcens delivery 61 75 fer cent and

Delmas procedure 51 11 per cent

Surgical methods employed in 477 cases by vari ous obstetricians had a maternal mortality of o or per cent a maternal morbidity of 50.74 per cent and a fetal mortality of 22.42 per cent The mor tality of individual surgi al methods was as follows low cervical cæsarean section 433 per cent clas i cal exsarean section 126, per cent l'orro exsarean section or lasterectoms 20 31 Fer cent and vaginal hysterotomy 15 38 per cent

The fetal mortality following the various surgical vaginal hysterotomy 39 13 per procedures nas cent classical casarean section 6 26 per cent low cæsarean section 11 11 per cent l'orro cæsarean section 71.42 per cent and hysterectomy 25 per

These statistics show that surgical method as a whole offer a better prognosis to the child at the expense of a slightly greater maternal mortality and morbidity

In the less serious cases artificial rupture of the membranes had a maternal mortality of 24 per cent whereas in the serious cases the maternal mortality following this treatment was 8 13 per cent and the fetal mortality 83 per cent. The authors believe that more frequent use of low cæsarean sec tion in serious cases would greatly reduce the mor h dity and mortality as this procedure is the most effective and direct method of controlling hæmor rhage It 1 indicated when (1) severe hamorrhage necessitates immediate intervention (2) delivery by the vaginal route is rendeted dangerous or im possible by inherent abnormalities of the cervix severe dystocia or central impl ntation of the pla centa (3) obstet ical methods have f iled (4) a I ving child is greatly desired and (5) infection is present. When uterine infection is severe the Porro

casarean section or hysterectomy may be neces

When the blood pressure is normal spinal anas thesia is the anasthesia of choice because of its hæmostatic effect in maintaining uterine contrac tion. In cases of hypotension ether an esthesia is to be preferred. I re operative and postoperative blood transfusion is of importance in the combating of surgical shock and severe secondary anamia HAROLD C M CK M D

Avella P Causes of the Intra Uterine Death of One Fetus in Twin Pregnancy (Causes d la m rt d'un des f etus in ute o d'na la gros e remella re) Gy iecol g e 1033 xxxii 473

The author reports twelve cases of intra uterine death of one fetus in a twin pregnancy which was followed by continued normal development of the other fetus. These cases were observed at the

Tarnier Clinic since 1026

In the pathogenesis of the condition two groups of causes are involved (1) general (2) local Among the former the author lists syphilis gestational toxamias and placental infarcts. The local etio logical factors include unfavorable nidation of one ovum low implantation of one placenta vela mentous insertion of the umbilical cord polyhy dramnios favoring torsion of the umbilical cord fetal malformations and local syphilitic changes in the cord and placenta Single-ovum twins are as often affected by these factors as double-ovum twins in spite of the fact that double ovum twins are four times more common. The author therefore believes that a single ovum twin pregnancy favors intra uterine death of one fetus

The cl sucal signs of the intra uterine death of one fetus of a twin pregnancy are variable depending upon the stage of pregnancy at which the death occurs Fetal death during the early weeks is usu ally not recognized the diagnosis being made most frequently at delivery by the discovery of a fetus compressus on the membranes When death occurs in the fourth month it may be suspected when a change in the rate of development of the uterus is noted The uterus which at the time is usually of a size definitely greater than that indicated by the menstrual history ceases its development at this rate and remains stationary or enlarges at the same rate as in a single pregnancy. However an exact diagnosis is impossible until a fetus compressus is discovered at delivery After the fifth month the s gas of fetal death are more pronounced diminu tion of fetal movements a change in the rate of development of the uterus roentgenological evidence of fetal death (overlapping of the skull bones) and palpable crepitation of one fetal skull. Intra uterine death of the fetus in single pregnancies is usually followed by the onset of lactation In the death of one fetus in a twin pregnancy lactation is inhibited by the living fetus or placenta. Absence of one set of fetal heart tones after two sets have been hear ! absence of one placent I souffle and diminution of the intensity of active fetal movements are other the intensity of active retail movements are uner-presumptive signs of the death of one of two fe tuses The most dependable evidence is the roentgen

The treatment as regards delivery should be ex pectant. When syphilis has been established as the cause anti syphilitic treatment may improve the prognosis for the living fetus and for future preg prognosts for the living fetus and for future prog-nancies. To determine the cause of death a detailed nancies to determine the cause of dead a determination of the umbilical cord placenta and examination of the umbilical CVI CK VI D dead fetus: essential

dead fetus 1 essential

Goodall J R Nephr tis and Pregnancy

The author states that the damage due to the toxicity of a pregnancy will depend on the intensity and duration of the condition on the one hand and the stability sensitivity and reserve of the renal hepatic vascular cerebral and glandular systems

The chief changes in the maternal organism in pregnancy must be looked upon as of endocrine on the other

The normal posterior pituitary lobe with a normal reserve responds normally to the stimulus of preg nancy but when the stability of the lobe is not normal and its reserve is low the demands of preg nanc) are not met and the consequences are a h) pop tu tary state with a low blood pressure low uterine contractility and low muscle nerve irritabil

Unstable glands in a state of hyperfunction and with a normal reserve before pregnancy may respond to the stimulus of pregnancy too vigorously with the consequent production of antidures s 2 high blood pressure albuminuria nephropathies liver necrosis and the symptoms accompanying

It has been definitely demonstrated that the pressor substance and the antiduretic substance of pressor substance and the authorities substante of the posterior lobe of the p tuitary gland act inde pendently When the pressor substance is dominant the blood pressure is high the specific gravity of the urine is low capillary contraction and internal changes in the capillaries occur and there is cardio vasculorenal dysfunction which if prolonged and severe leads to permanent irreparable organic dis ease. When the antid uretic substance is dominant. the urine is scanty and filled with albumin and casts and cedema and vascular changes occur with the development first of dysfunction and later of the development mast of dystancous and coma necrosis of the liver eclampsia and coma

Treatment to arrest the superproduction of a compound gland substance such as that of the putuitary gland is useless Early functional derange pour la contra de la contra del contra de la contra del contra de la contra del contra de la con be relieved of worry physical effort should be re duced to the minimum elimination should be promoted by every means possible to free the body of the poisonous products of thated function ner ous excitability should be controlled by sedati es in cases of impending or act e eclamps a the blood pressure should be reduced by enesection and the

cause of the overstimulation of the glands of internal secretion which is presumably the placenta should be remo ed as soon as is consistent with the pa tient's best interests. The metabol m should be reduced at hirst to a rate as low as possible consistent with the maintenance of life and after improvement has begun should be kept as low as is con ment has begun should be kept as low as is con-sistent with maintenance of the body we ght. These requirements are best met by hospitalization with as complete seclusion as possible and in se ere cases a star ation and water free diet for three days fol lowed by a diet free from carbohydrates and chlo The bowels should be acti ated by colonic lavage Sedati es such as morphine chloral sodium amptal nembutal and veronal should be used fre quently but with discrimination to promote mental and body rest and allay ner ous o erext tation EDW RD L CORNELL, M D

Lazard E M. An Analysis of 575 Cases of Eclamp tic and Pre Eclampt c Toxemias Treated by to and the retaining to toximitian a treated by the state of Magnesium Sulfactions of Magnesium This report 1 based on 371 cases of pre eclamps a phat Am J Obst & Gy

in 21 (5 6 per cent) of which convulsions developed and 223 cases of con ul we toxem a

The cases of pre eclampsia fall into 2 group (r) those in which the patient was n lab r when admitted to the hosp tal the systolic blood pressure was 150 or over albuminuria was usually found was 150 or over anounnellis was usually tolling and injections of magnes um sulphate were gi en as a prophylactic measure and (2) those in which the patient was admitted to the hospital in the last two weeks of pregnancy n a frankly toxic condition and the intra enous injection of magnes um sulphate was the main feature of the treatment. For many years the author has treated eclampsia

conservate ely Howe er in the presence of act, e labor and cephalopel ac disproportion or some other urgent obstetrical indication such as abruptio pla centæ he has performed cæsarean section notwith standing the operation end. In the cases of nomen with pre eclampsia and those with eclampsia who ha e reco ered from the con ulayee attack but are not re ponding to treatment satisfactorily casarean section 1 at times indicated as an aid to the treat the of the locations for the abdominal sections in the ment of the toxem a

author's cases were abruptio placente 4 cases a r case mechanical distocta 2 cases and persistent toxemia 8 cases previous sect on for toxem In r of the cases of persistent toxems the con ul, sions recurred two d s after they were controlled In only 3 cases was the operation performed durin the eclamptic attack. In 2 of these the ind cation was cephalopel ac distocia and in 1 case continu ation of the toxemia with recurrent con ul ons In the other cases the operation was done from thirteen hours to thirteen da after control of the

There were 3 deaths in the cases in which cresarean section was done The first was that of a noman eclamps13

with abruptio placentæ who was operated upon under spinal anæsthesia forty eight hours after con trol of the convulsions The second was that of a woman with chronic nephritis who was operated upon sixty hours after the eclamptic convulsions were controlled while she was comatose. The coma continued until death from uræmia five days after the operation. The third death was that of a noman who died twenty eight hours after operation and at autop v was found to have had subpial hamorrhages

The routine used by the author at the present

time is described in detail

Becau e of the variety of the factors which may produce the eclamptic syndrome Lazard believes that it will be impossible to obtain a specific cure for

The objectives of treatment in cases of preeclampsia should be (1) to overcome the effects of the toxemia by sedation and elimination (2) to relieve the demands made on the embarras ed emunctories by proper regulation of the diet espeerally with regard to balancing of the fluid intake with the output and (3) to terminate the pregnancy as conservatively as possible before the onset of convulsions when the patient does not respond properly to treatment

The chief objectives of treatment in eclamp ia should be to control the convul ions and protect the patient against accidents during the convul ions and coma Surgical termination of the pregnancy durin the eclamptic attack is justified only in the cases of natients in labor v ho present an urgent

obstetrical indication

In the entire serie of cases reviewed including both tho e of pre eclamp 12 and those of eclampsia the gross mortality was 5 9 per cent In the cases of active eclampsia the gross mortality was 13 33 per cent and the corrected mortality 9 5 per cent

EDWARD L CORNELL M D

Viel en M. Radium Treatment of Cancer of the Cervix During Pregnancy 1da bst 1 gy ec S d 1933 XII 35

Since cancer of the cervix occurs chiefly in women over forty years of age it is a rare complication of pre nancy Its a erage in idence in pregnancy as determined from various estimates is 0 005 per cent While in most instances the lesion diagnosed during pregn nev i already hopelessly inoperable there i no evidence that pregnancy hastens the g owth of the prim ry neoplasm. Hovever the author is of the opinion that the increased vascul rity of the pelvic organs and the increased ti sue succulence during pregnancy favor more rapid di emin tion through the lymi hatics even though the growth of the I c I lesion is not ob ously accelerated since contact bleeding (duri g coitus) is us ally the first chin calls gn of cer real carcinoma, this sign is usu ally not elicited during the latter half f pregnancy Hence the di case i usually far ad anced when the diagn sis is made

Nel en reports three case of cervical carcinoma treated with radium during pregnancy and revievs forty one cases collected from the literature In tuelve cases abortion occurred early in pregnancy after radium irradiation Of thirty two children born at or near term only three were mentally defective as the result presumably of the irradiation. The prognosi for the child i therefore relatively good much better than that reported following post conceptional ray irradiation \ccordingly the Accordingly the author believes that interruption of the pregnancy is not warranted from the standpoint of the child The prognosis for the mother 1 extremely poor

Of the vomen whose cases are reviewed only eight were alive three years after the beginning of treat ment In thirty two cases in which labor occurred at term or early abortion occurred spontaneously there were five deaths from hamorrha e at the time of delivery and two deaths from infection Casa rean section was performed five times with one death due to eclampsia. In one of four cases in which supravaginal hysterectomy was performed after existrean section the patient died after the operation Carsarean section followed by total hysterectomy was fatal in all four cases in which it was attempted The intracervical application of radium is condemned on account of the danger to the fetus (abor tion radium burn ) Because of the dan\_er of hæm orthage during labor cæ arean section is the pre ferred method of delivery. If possible it should be supplemented by supracervical hysterectomy radical Werthern operation 1 too dangerous during pregnancy when resistance to shock and infection low Whether or not the casarean section 1 to be supplemented by hysterectomy depends upon the bacterial flora of the vaging v high in turn depend to some extent upon the result of the radium treat ment and the time of this treatment in relation to parturation. When radium treatment has been in stituted relatively early in pregnancy and when the Ruge virulence test shows the vagina to be free from virulent bacteria the classical cæsarean section alone is adequate. When virulent bacteria are present in the vaging supravaginal by terectomy with careful cauterization of the cervical stump and canal is the preferred method of treatment. The oneration should be supplemented by intensive radium or \ ray irradiation

HAROLD C MACK M D

Puntel A A The Treatment of Abo tion (S b t tam t d labort ) Se mēd 933 1 879 In the treatment of threatened abortion all conditions a hich favor contraction of the uterus must be avoided Absolute rest in bed is of the most importance Add tional re t as vell as control of pain may be obtained by retention enemas of laudenum Hemorrh ge ma be controlled by the use of a mixture of the fluid extracts of h mmamelis his drastis and vibernum Local treatment is uscless

In inevitable abortion conservative treatment i of no value. The uterus should be emptied by the method most nearly approximating natural and spontaneous expulsion The ecbolic drugs employed are quinine sulphate which is given by mouth and pituitrin which is given intramuscularly. When the cervix is only partially effaced and incompletely dilated and more or less severe bleeding occurs a unated and more of tess severe offening occurs a vaginal path may be necessary. This should be introduced with great care for asepsis A large roll of sodoform gauze may be used The pack should

always be removed after twenty four hours In cases of complete abortion expectant treat ment i employed Complete abortion is indicated by a closed cervix a reduction of the size and an in oy a closed cervia a reduction of the size and reduction crease in the firmness of the uterus and reduction of the bloody discharge. In some cases the bloody discharge in some cases the bloody discharge may be controlled with ergot.

Scharge may be continued with ergor.
In cases of incomplete abortion without infection there is the double danger of sudden se ere hamor rhage and future infection. The cervical canal should be dilated under anaesthesia if dilatation has not already occurred and an) remaining remnants of the products of conception removed n th a dull of the products of conception removed with a unit spoon curette. Evacuation of the uterus is usually equally urgent in febrile or infected cases Lavage of the uterine cavity should be done first and fol or the merine cavity should be done and and for loved by curettage with a dull curette. The results obtained by this method in 3 000 cases treated dur ing the past ten ) cars have been better than those obtained by the conservative treatment formerly used

Of 2 360 cases of incomplete abortion without in fection which were treated in the clinic of Cirio immediate curettage was done in 2 110 The average stay in the hospital in these cases was one neek. Of are, in the hospital in these takes was one week. Or 324 cases of infected incomplete abortion curettage. was done in 255 with no fatalities and an average was none in 233 with no latables and an average stay in the hospital of nine days. Of 43 cases of complicated septic abortions with adnexal or para metrial lesions immediate curettage was done in 18 neuron iesons immediate cureriage was done in 16 vith no ill effects. Further interference in such cases is delayed until the temperature becomes normal

## Vogt Violler P Treatment of Sterility and Habit t noner is reasumencor sterming and measures wal Abortion with Wh at Germ and Wheat Germ Oil (Vitam n E) A 1 obst 1 gy c S nd

The author reports the results obtained in the treatment of twenty cases of habitual abortion and fi e cases of id opathic sterility with wheat germ oil a c cases of 14 opatine sterner, with wheat germ of (fertilitan) and wheat germ. He defines wheat germ as an aggregation of cells (constituting about 1 as an aggingation of the whole grain) from which new germ grows. It is a by product of the grinding of wheat The commercial prepar made of sprouting wheat germs as ; Wheat germ is a tasty and excellent mins B and E and a good source of \ contains also some Vitamin A an l amounts of the m nerals of the wheat g

Lasting favorable results obtained t ment of sterility in cows with th

prompted the author to apply this remedy to cases of human sternlity Two cases in which apparently or numerical section to the cases in which apparently successful results were obtained were reported in outclessing results were outsined were reported in 1931. Since then the treatment has been employed by a number of invest gators under the authors supervision. The patients to whom it was gi en supervision. The parients to whom it was gird were considered from organ c educes of sternit although transuterine insuffiction hysterosalp ago raph) and the Huehner test were not employed to rule out such causes In seventeen of the twenty cases of habitual abortion it ang children vere born after the administration of wheat germ oil and wheat germ Fi e women with primary sterility gave birth to two I ving children after the treatment The manner in which the treatment acts is not dearly understood As far as could be ascertained the patients whose cases are reviewed had been re ceiving diets containing adequate amounts of \ ta min E but the author points out that it is quite difficult to estimate the Vitamin E content of the ordinary diet. He suggests the possibility that some Nomen may require more than the ordinary amount women may require more than the ordinary amount of Vitamin E and that hypo stamin states during or straining and that type training states against pregnancy can ed by the increase in the maternal metabolism and the stamin requirements of the metabousin and the standar requirements of the fetus may be responsible for many gestational d.s. turbanes such as thyrod enlargement dental caries angent and neuritis. The administration of wheat germ oil is entirel harmless Most patients uncar germ on is entired nationally discontinued treated with fertil tan has e experienced definite in pro ement in health

# LABOR AND ITS COMPLICATIONS

Beruti J A León J and Diradourian J Effects of Early Art fic al Rupture of the 1 mbran and of Ant spasmod Med cation on Func and of the D lat ng Period (Ef ct d l tu arth lpec d l b Lad las agus y d l m dicación antiesp media a l m m las funci nale del p nod dil ta t ) 5 m

This article is based on sixt sx cases of patho logical labor due to a d namic nsufficiency or a iogical labor que to a q name (naumelent) in spasmodic state. The cases were classified into those spasmodic state. The cases were classified into those of primitip are and those of multi-parse and again subor primity a and knose or muse pare and again and di ided according to the relat in between the presenting pa t and the pel and the degree f dilata t on of the cervix. This as done to determine the ind cations and contra indi at ons for the procedures ere ruptured artificially

mplete dilatation of the stud ed After the membranes noted Records were kept also of the the time required for quency and th thm f the uterine con ore and after a tine al rupture of the 71/195 and in some cases hysterod namo streng tracti pasmalgine (a

membr paverin and odics used 1 graph ining Pantop a ning papa The no itories of (a preparati) It prepara ne as used sulphate) hle atrinal) lamine 4 enn an belladon

mo t often. The amount admini tered varied from to a c cm

The authors draw the following conclusions

1 In cases of primary or secondary dynamic in sufficiency during the dilating period especially in its second phase artificial rupture of the membrane generally intensines the uterine contractions

2 The combination of small doses of pituitrin 1th an anti pasmodic drug is especially efficacious

n ca es of hypodynamia

3 In spasmodic states during the dilating period artificial rupture of the membranes is indicated when per a tence of the membranes is responsible for the dynamic insufficiency and prolongation of labor (close adherence of the lo er pole of the membranes and the uterus which cannot be separated by the fin ers and inelastic membranes which keep the head floating)

4 When the cau e of the functional di turbance cannot be found anti pa modics should be used

5 When anti-pasmodics regulate the contractions but the external os remains unchanged rupture of the membranes 1 indicated and should be supple mented by the administration of antispas nodics and if necessary small do es of pituitary extract

6 Under these circumstances treatment bring about complete dilatation quickly shortens the expul ive period and frequently renders operative

measures unnecessary

7 The best re ults are obtained in cases with dilatation of more than 4 cm and especially in those in which the head remains high in the absence of d sproportion

8 hadure usually indicates the p esence of an important anatomical lesion of the cer ix requiring

sargical intervent on

The admini t at on of large doses of antispas mod cs predispo es to hæmorrhage after expulsion of the placenta 10 Rupture of the membranes with incomplete

dilatation does not seem to affect the puerperium Artificial rupture of the membranes fre quently regulates the rhythm of the uterine con tractions when the administration of antispasmodics

has no effect upon it

In some ca es the cervix dilates rap dly under t eatment in spite of the abs nce of a change in the ute ine contractions 13 While the membranes constitute an obstacle

to dilatation of the cervix early artificial rupture of the membranes with or athout the dministration of antispasmodics should not be done in cases in hich the d sturbance s due to other causes W H M RTINEZ M D

### PUERPERIUM AND ITS COMPLICATIONS

Sm th J AFu th r Investigat on into the Sourc of Infection in Puerperal Fe r J Obst & Gyna B 1 E P 933 1 99

Further studie of the sou ce of infection 11 puerperal fever ba e confirmed the author's earlier

finding which indicated that the majority of cases of severe puerperal sepsi are due to infection by the hæmolytic streptococcus The greater percentage of the deaths re ulting from infection are allo caused by this organism Various other organisms play a minor part in the causation of the condition s ork on the bacteriology of the genital canal demon strates that hæmoly tic streptococci are rarely found in the canal under normal conditions and that the most common sources of these organisms in the nor mal human body are the upper respiratory pas sages particularly the tonsillar region. Faylor and Wright have shown that about , out of every 1 000 women harbor hæmolytic streptococci in the genital region at the onset of labor but that the majority of such carrier have a normal puerperium. The author cites al o a number of other inve tigators whose v ork emphasizes the importance of extrinsic source of infection in puerperal fever

Smith studied the infection due to the strepto coccus ryogenes hamolyticus and the bacillus coli In the streptococcal infections the uterine secretions blood faces urine throat and nose swabs of the patient and nose swabs from the immediate con tacts were cultured. In the bacillus coli infections specimens were obtained only from the patients Complete bacteriological and serological investiga tions ere carried out for diagnosis and for correla tion of the variou strains from the different sources

In the cases of infection due to the hemolytic streptococcus 78 per cent of the women were pre sumably infected from an extrinsic source and o (22 per cent) infected from an intrinsic source extrinsic source as the throat or nose of the doctor student nurse or attendants (mid vife neighbor) in direct contact 1th the patient. The intrinsic source was the nose or throat of the patient. In all except i of the injections due to the colon bacillus the source was the urine or faces or both. In 1 case a case of septic abortion a strain similar to the uterine strain could not be found in either the urine or the faces

The author concludes that the bacteria were in troduced by hands or by instruments sprayed or otherwise infected by carriers. The manner in which the strepto occi become implanted in the genital canal is not clear. No definite proof has yet been offered that gross infection is conveyed from the mouth or nose by hand rather than by the spray of droplets

The author cites records of small outbreaks of streptococcal puerperal fever traceable to person who were carriers A I LASH MD

K hrer E Venou Ligation in Puerperal Pyzem a (Zur le ut b dung b pu rp rale I) em )

W he md ||c| h 933 1079

In a discussion of puerperal pyaemia emphasis should be placed chefly on the importance of pro phylaxis When the condition is established the urgeon must decide whether to remove the entifocus of infection open an abscess or block off a disease proce s loc lized in the pelvic organs from

living connection with the body by operative sensity station. A defect in the extraperitioned procedure is the insufficient view obtained of the disea e focus With the trap peritioneal procedure there is the risk of suppurative peritonitis ileus disodenomesentern occlusion postoperative paralysis of the stomach and hemorrhage as well as the disadvantage of a deficient irenderity toward helping of the laparotomy which is a more serious disadvant ge than in the case of an etitization to the control of the control

The author therefore recommends combaung the intrapentional—you transpersionael—procedure with the unlateral extrapentionael procedure with the unlateral extrapentionael procedure closing the abdomen after inspersing sit accurately localizing the disea of locus and then attaching the infectious focus in the ven by the extrapentionael route. The venous ligation must be carried out as far from the thromboord area as possible. The indicate the contraction of the processing the processing the processing the processing the processing the processing animals of childs occurring at the peaks of the fewer a rapid pulse of poor quality procressive loss of

appetite and strength and detenoration of the blood picture the patient suddenly gets worse after having shown improvement for a day or two. When sever I chill so focur with a senious disease pottient the operation is indicated because of the danger of metastases. Too long delay of ligition of the view has brought the operation into discredit. It has been established that by the ligition the indext even is solated and that life can be saved if the operation is not performed too late Complications curring in a litture pregnancy and delivery are not to be feared.

The author recommends as the method of choose on the one had primary bilateral entrapentones to although and primary bilateral entrapentones because of the van and on the other hand a careful primary exploratory laparotomy to determine the changes in the pelvic organs and their cenous area and to search for thrombosed vessels. On the side on which laparotomy reveals the thrombophilebrus extrapentronest venous largest vensus lagratery and to search vensus largest vensus lagrator must be done in mediately. So long as the thrombosus is localized to the effector vessels of the pelvics an increase in the incidence of cure of purperal py arms may be expected from operation. Descensivings (6)

### GENITO-URINARY SURGERY

### ADRENAL KIDNEY AND URETER

Gutierrez R The Surgical Aspects of Renal Agenesis with Spec al Reference to Hypoplas tic Kidney Renal Aplasia and Congenital Absence of One Kidney 1rch S g 1933 xx 11 656

The author calls attention to the necessity for a complete arongoned examination for the recognition and differentiation of hypoplastic kidney renal aplasus and congenital absence of one kidney. These malformations are explained by an arrest of the property of the conditions including the anatomical physiological and clinical findings and presents illustrative case reports. He emphasisms the conditions with the conditions with the conditions of the conditions are proposed to the conditions of the conditions and presents illustrative case reports. He emphasisms which is the conditions of the conditions are conditionally conditions and presents illustrative case reports.

The solitary kidney may be found in the normal position or may be ectopic or cross ectopic. Cases of the condition are characterized by a single ure teral opening into the bladder.

The author believes that the treatment of hypoplastic kidney and renal aplasia should be surgical and that of congenital absence of one kidney symptomatic

Dov LD K Hr s M D

### H ggins G C and Hicken N F Spontaneous Ren l and Ureteral Fistulæ i h S g 933 n 817

The authors report a study of three types of spontaneous renal fistula—nephrocolic nephro peritenal and renochylous—and one case each of spontaneous uretero esicoperitoneal and uretero periureteral fistula

Spontaneous renal and ureteral fistules are usually the result of advanced kidney disease such as tu berculosis nephrolithiasis pyonephrosis in drone phrosis or neoplastic disease but coccasionally articome a pernephritic abscess secondary to caries of the vertebræ perity philitic abscess pelvic disease or peripheral indections such as boils

The diagnosis is made from the clinical symptoms and cystoscopic and roentgenographic findings

The most important consideration in the treat ment of spontaneous unnary futule is prophylaxis prevent on of the advance of kidney disease to the stage of fatule information by early corrective measures. The closure of a renal fistula usually requires the control of the contr

of indwelling ureteral catheters may facilitate the closure of a ureteral fistula but as a rule the lidney is harboring infection which has destroyed the parenchyma to such an extent that its conservation is useless

Lee Brown R K and Earlam M S S The Rela tion of Prolonged Immobilization and Urinary Tract Infection to Renal Calculus Formation A 1 also & \colon \cdot \colon \cdot 2 S u \cdot 933 m 157

The authors review the literature report six cases showing the effect of prolonged immobilization on the formation of renal calculi and review current theories regarding the causation of renal calculi. They state that under normal conditions and soluble crystalloids which are formal conditions in a coluble crystalloids which are formal conditions in the coluber of the coluber of

The first stage in the formation of a calculus is the deposition of crystals in the urinary passages Vicehanical conditions must be such that these deposits are retained for an adequate period. The authors believe that infection accelerates the formation of calculu but is not alone responsible for it. Prolonged immobilization by interfering with the sufficient time for the deposition of crystal which would otherwise not be deposited until the urine is voided. Retention of these crystals vill then lead to the formation of calcult which otherwise would to the formation of calcult which otherwise would not be formed. Praise VI Corness VI D

### BLADDER URETHRA AND PENIS

Sokolov M Primary Carcinoma of the Male Urethra (Ueber da primae e Ca n m d m enn l ch n Urethra) So Kh 93 65

To date 10, cases of primary carcinoma of the male urethra have been reported "Oslodov reports another. He was able to find only 1 case described in the Russian literature (Bessons) 1914. Gonor throw has been suggested as a cause by Ruzzi. Flamm Wanne and many others but as the result of Aschold a studies the posibility of the development of the contract of the contract of the contract of the contract of the structure must be assumed. The new growth is always stuated in the antenor.

portion of the canal On microscopic examination 7 orms are distinguished the tumor like polypous papillary or smooth new growths and the inhitrating growths. The latter readily lead to stricture. In both forms fistula formation results from the breaking down of the new glowth. Metastas s may occur into the regional lymp iglands and also into remote

organs (lung pleura) The major ty of the lesions are squamous cell cancers Adenocarcinomata are rare and have their origin in the glands of Littre or

I rimary cancer of the male urethra is most com mon after the forty fifth year of age The first stages Conper become tinged with blood and severe pain and di The stricture

turbances of micturition develop orse and ultimately a diagnosis of tumor is made The tumor increases in size and causes fistula formation. In the later stages urinary infiltration abscess formation and metasta sis into the regional lymph gland occur

The prognosis is unfa orable as early diagnosis is difficult. However when the tumor is located distally good results may be obtained by radical operation The end results are not very encouragin Early diagnos s is facilitated by biopsy therefore

this procedure is recommended

The treatment of choice is early radical operation Roentgen or radium therapy should be used only in inoperable cases and when operation is refused Sololov's case was that of a man fifty mine years

of age who was admitted to the ho pital with com plete retention of urine Venereal d sease was de nied A brother sixty four years of age was operated on for carcinoma of the prepuce. The pat ent had had disturbances of m cturition for a year and com plete retention of urine for a week Examination disclosed infiltration of the scrotal portion of the urethra and enlargement of the nguinal lymph glands Cystoscopic examination re ealed practically nothing but hyperæm a of the mucosa The patient refused operation Six months later he returned with a large tumor \s he still refused a radical operation the treatment consisted in remo al of the invol ed part of the penus followed to eeks later by ext rpa tion of the regional lymph glands under local anas thesia Convalescence was une entful Hi tolog ical examination shot ed the tumor to be a carcinoma my romatodes Six months after the operation the patient was still in good general condition patient was sim in good general condition author considers this a case of primary urethral carcinoma

Pettinari V Surg cal Methods in the Treatment of Hypospad as (M todich rurgici n ll cura d ll

The author discusses the indications and the alue of the variou surgical procedures which ha e been devised for the rad cal treatment of hypospadias de arule any other abnormalities of the gen tal tract such as undescended testicle should be cor rected before the hypospadias The operat on for the hypospadias is best performed between the ages of six and ten years the exact time depending upon the type of the cond tron The author prefers the Beck von Acker method for the balanc forms of hypospadias the method of Mathieu for the juxta balanic forms, and the umbrella operation for the perineoscrotal forms

Whate er method is used a careful exact surgical technique patience on the part of the patient and surgeon and sufficient time inter als between the succeeding operations are essential PETER A ROI MD

## GENITAL ORGANS

Care noma of th Prostate J ! ! D llon J R

In cases in which a fairly definite diagnosis of carcinoma of the prostate has been made it is rarely possible to offer a hope of cure Therefo e the treat ment must usually const t of palliat ve measures to render the patient as comfortable as possible for the rema nder of his life Survi al seldom exceed three

Twelve years ago in the case of an old man with the diagnosis of carcinoma of the prostate Dillon performed a permeal type of operat on and followed it by irradiation for ten hours with 50-mgm radium placed in the lateral portions of the capsule The patient made a normal reco ery from the operation h ed for three years with ery little discomfort he ond that caused by the occasional passage of sounds and died of generalized metastases

The method of operating used by the author today in cases with a doubtful diagnosis of malig nance of the prostate was developed about seven years ago In the procedure the prostate is exposed b) the usual permeal technique and enucleated e masse b) an in erted \ meision in the prostatic The entire prostatic urethral mucosa is then remo ed from the membranous urethra to the

In advanced cases in which the plaquer neck. In auvanced cases in which the capsule s inhitrated the growth is shaved off a suff cient thickness of capsule being let to form a new sua cient chicknes of capsule being fer to form a new prostat c urethra Infiltration around the bladder neck is carefully trimmed off and any suggestion of a median bar is removed Bl dder neck bleeding is controlled by interrupted catgut ligatures. Two rubber tubes containing 50 mgm of radium each are placed in the regions of each lateral lobe. The po terior flap containing the posterior lobe 1 brought up and sutured at its apex between the radium tubes The rectum is separated from the pel acf scra wall below the level of the radium tubes nd the space packed ith odoform gauze at least in in thickness the entire prostati capsule to

the membranous urethra being co ered. Radium tubes a bladder drainage tube and gauze packing are brought out together on the right side of the perneal wound. The rad um tubes are left in place for from ten to f urteen hours from coo to 1 400 hours of cross fire irradiation being gr en the area

employed the radium tubes in ol ed by the new growth only in cases with a definite diagnosis of carcinoma but during the past se en years he has been us n them also in su pictous and doubtful cases

prostatic carcinoma frequently starts in the posterior lobe which is usually not removed n either supra

pubic or penneal prostatectomy a potential source of malignancy of the prostate is left in practically all prostatectomies

In conclusion Dillon says that the operation described is of most benefit in the questionable cases in which there is a possibility of cure that it is more conser ative than the radical perineal operation and that it gives good functional uniary control with no particular increase of risk in the postoper ative convalescence. CLUBED HOUSE VID.

### MISCELLANEOUS

Morson A C The Relationship Between Cenito Urinary Haemorrhage and Diseases of the Vas cular System P R S S I Lo 1 1933 x 1 87
Morson classifies diseases of the vascular system

which cause hemorrhage from the genito unnary tact as (1) those in which changes occur in the blood and capillary endothehum such as the pur pursa and (2) those in which alterations of a patho logical nature are taking place in the walls of both arge and small blood vessels but there is no change and the state of the state of cleans hyper personal tables are the state of cleans hyper personal tables and a sattern cleans hyper personal tables are the state of the state of the personal tables and the state of the state of the personal tables are the state of the state of the gentio-unnary tract was the chief manifestation of the disease and two cases of thromboss of the cor pora cavernoss. He states that the latter were not caves of true prajas mbecause us prapip in the whole organ is enlarged whereas in thrombosis of the corpora cavernosa there is no swelling of the glans penis Morson advises against the surgical treat ment of priagism FRANK M COCHAIN M D

Cattanco M. Tle Frel Test in Lumphogranu lomato is Inguinale the Fourth Veneral Disease of Nicolas and Farre (Lapo ad Frei nella I figranulomat si gui ! (IV mal tta di Nola Fave) irchital deb 1933 xv 1 830

Cattaneo reports six cases of lymphogranuloma tosis inguinale in a high the I rei test was of great at I in the hagno is As is well known the Frei test which i based on an allergic reaction of a sensitized body to an antigen from the pus i olated from a bubo of the patient is of great importance in distinguishing the fourth venereal disease other conditions a sociate I with inguinal lymphad enonathy In five of the author's cases the ling nos s as made by the I rei te t alone. In one this test was supplemente it v biopsy. In one case the Was ermann reaction as positive and syphilities inguinal adenitis vas su pecte l but when the Was ermann reaction became negative after antisyphilitic treatment there was no change in the adenitis A positive Frei test then led to the diag no is of lymphogranulomatosis in a syphilitic. In all of the author's ca es treatment with large loses of potas ium iodide quickly resulted in cure FIGENE T LEDDY M D

# SURGERY OF THE BONES JOINTS, MUSCLES, TENDONS

### CONDITIONS OF THE BONES JOINTS MUNCLES TENDONS FIG

Hodges I C and Ledoux A C Osteomalacia
A Brief Review of the Modern Concept on
of the Disease Am J R entry no 1933 Ext. 500

Of the Disease "A" A rang no 1933 xx 1900. Custom restricts the use of the term osteo malacia to the particular softening of the spine polivas and the bones of the extremities which ame times occurs in pregn in or lactating women. The fundamental process is probably identical with the rickets of children and framme osteoprosos. The authors believe that the active agent in osteomialians authors believe that the active agent in osteomialians is merely incidentally set they admit that certain is merely incidentally set they admit that certain is merely incidentally set they admit that certain arrathy incidentally identical with that seen in the osteomializand of third bearings women

Rickets and osteomalacia are identical diseases Most arguments to the contrary are based on nega tive evidence Both conditions are due primarily to a deficiency of Vitamin D O teomalacia may be called Virchow taught that the two dis eases are different since in one newly formed bone fails to calcify while in the other bone once well cal cified loses its calcium. However Conheim demon strated a constant process of destruction and re formation in bone similar to that occurring in all other tissues and McCrudden enunciated the gener ally accepted theory that in osteomalacia physio logical destruction of old bone and its replacement by new osteoid tissue takes place but for some reason the calcium liberated from old bone is lost from the body and does not calculy the new osteoid t saue Steenbook and others have since found that the cause of the calcium loss is a deficiency in \ itamin D PHESTER F GUY M D

Gaehtgens G The Experimental Production f Ostetis Fibrosa in the Rat by Means of Lead Acetate Avaccous and Glucose (Urbe experimentelle Erreugung on Ost us fibrosa durch El 1 acetat Narkove und Gluk ebch ndlung an Rat ten) Frankt vi Zirock f P ik 1933 zl 54

Although formerly the status deformans of Paget and the solution fibros of von Reckinghausen were believed to be the same of sees the recent studies of Schmool have demonstrated an essential difference between them In Paget a disease bone forming processes predominate whereas no status fibrosa recorpt a processes predominate. Moreover re on metabolic studies have shown that osterits fibrosa is a secondary reaction of the skeletal system to nayor of the bone In agreement with these findings is the fact that in osterits fibrosa there is an increase in the calcium excreted in the unice and the cause may be a

parathyroid tumor. Moreover, an identical halo logical picture as well as an increase in the extenlogical picture as well as an increase in the extenparathyroid extract chronic lead possoning the subcutaneous injects in of ammonium chloride, the duly indig time of inarcoss with their or chloriform and the administration of amounts of glucose sufficient to cause a blood facilities.

While the previous experimental work on this problem was carried out on large laboratory animals (rabbits and dogs) the author undertook his experiments on small laboratory animals (soung rate

and mice)

In his first group of experiments a 1 per cent solution of lead sectate was singlected o 3 ccm being given at first and o 5 ccm after a few days. In the experiments on rats the dosage was gradually in creased to 1 ccm. Twenty mice and fifteen rats were u.ed. All foll the an mais died. The longest survival of mice was secenteen days and the longest survival of rats thirty days. The skull sternum wettebral column long bones and nits were examined bistologically.

Ostetits fibrosa was not produced in the mice. The author bel cies that this fact may possibly be er and continued long enough the longest period being only secenties days. In the rats, the results were positive. The typical tissue changes were observable in these animals after a period of fourteen days.

In the second sense of experiments twenty muc and eighteen rists were subjected to the dail's in duction of ether narcosis for periods virying, from thirty minutes to one hour I in the cases of some of the animals the experiment was continued for thirty days. In the mere nop to the results were obtained. In the ratis the very slight heyminings of estrikings could be demonstrated in the valual of the shall and a slight fibrosis and lacunar resorption in the entity see of the lone bone of the lone bone.

In the third series of experiments revent; rats and mice were green daily subvitaneous injections of glucose solution. Are solution was used. In the case-of the mice the dose was gradually in releast from 3 of to 5 c cm. and in the cases of the rats (or solution) and to 5 c cm. and in the cases of the rats (or solution) and lated as long as forts, five days but most of the annuals died soover. Chaneses in the sense of an

o testis fibrosa could not be demonstrated in either

From he results the author concludes that as re moval of the parattyro ds cau es a decrease and the administration of parathyroid extract causes an in crease in the calcium content of the blood the fine to not the parathyroids is a hormonal control of the and have balance and the parathyroids regulate the blood reaction. When the metabolism of calculus is unablished by exogenous experimental means such as the administration of lead acetate the same changes occur without participation of the parathyroids. The fact that the most marked changes of this type take place in such parts of the skeleton as areas of the epiphyses near joints and the vertebra is explained by the greater functional demands made on these parts of the skeleton. Max Brous (2)

### Snyder C II The Association of Pulmonary and Other Tuberculous Lesions in Cases of Proved Bone and Joint Tuberculosis J Bone & Jo: 1 Sug 1933 XV 924

Of fix consecutive cases in which a clinical diagnoise of tuberculosis was made during the past year the pathological report was positive or specimens were positive on direct smear potato egg culture or guinea pig inoculation in 100. In 50 there was no pathological or bacteriological report I in 14 the guinea pig inoculation and pathological findings were necessive

In 27 cases there was definite clinical and noent geological endence of paraench mal or adult pul monary tuberculosis and 13 presented such evidence of active childhood tuberculosis Of 41 children from one to fifteen years of age 8 (19 5 per cent) had paraench mal and 10 (44 5 per cent) had the child bood type of tuberculosis. The total incidence of ung molvement in this group was therefore 44 per cent. Of 30 children satteen years of age or order to control of the children satteen years of age or order to children satteen for fung molve meat in this group was therefore 37 per cent. Of 37 adults 15 (46 c) per cent had pulmonary lessons

I enal fuberculosis was found in 8 per cent tuber culosis of the tonsis in 5 per cent and tuberculosis of the tonsis in 5 per cent. Single tuberculosis of tuber tonsis in 5 per cent. Single tuberculosis of were found in only 14 per cent. Because of the fire quency of real involvement and the fact that renal involvement was discovered relatively late in the cases reported the author stresses the importance of more frequent and cateful urnnalyses with guinea more strength on cases of true skeletal tuberculosis.

Of 44 cases in which the Manhous test was carried unding 1 ma later test in the cases of 36 patients with tuberculous of the bones and joints and 2 patients with tuberculous of the bones and joints and 2 patients with so polomy-clius the results were positive within seven by too hours in all whereas the controls remained in a patient with the property of the control of the contr

# Pirie A H Kashin Beck D sease Am J Ro 1

Kashin Beck, disease is endemic in a portion of Siberia north of Manchuria. It was first described in 1850 by Kashin and was discussed in 1966 by Beck la 193 Schipatschoff de gnated it as oateo arthritis endemica. It is unknown in North

America Its occurrence is apparently related to a raw climate a water supply contaminated by manure and a diet deficient in vitamins. In the area in which it is endemic vegetables are unobtainable for about half the year and the principal food is unique wheat It is found in animals in the area in which it is endemic and has been produced in experimental animals by feeding them bread obtained from that area. It occurs in both sexes and at all ages

"The pathological changes are found mainly in the bones and points. There is a marked rarefaction with thanning of the cortex and shortening due to arrest of growth. The joint changes are similar to those of advanced osteo arthritis. The resulting deformities are most marked in the fingers. Shortening of the fingers and swelling of their joints produces the so called bear spaw deformity.

The clinical symptoms begin with joint and muscle pains followed by joint swelling bemorphage spots in the skin and fever After the acute stage has passed deformities associated with muscle atrophy appear Dentition is delayed. The gums are spongy and rachitic rossins are found The disease therefore seems to be a combination of rickets securyy and polyneuritis.

The condition progresses to chronic invalidism if the patient remains in the area in which it is endemic but disappears without treatment if he moves out of that area CESTER C GOY M D

# Gatta R. Histological Researches on the Behravior of the Synovial Membrane in Immobil zation of Joints (Picerche istol giche sul c mp tamento d ll sino icale n ll immobiliz a o e d lle articola om) Chr d g 1 di mor m i 1933 x m 273

The author reports the findings of histological studes made on the tibo astragalar joints of rabbits after immobilization for periods ranging from four to histy-one days. The changes noted were classed as degenerative and proliferative. They began as early as the fourth day and were sepicially marked in the reticulo endothelial tissue of the si novial membrane. The proliferative changes tended to reduce the size of the joint space. Whether these changes are due to the immobilization of the orden and vascular changes occurring after the application of the plaster cast has not been determined Perra R AGS MD.

# Julliard C Co acoiditis (La racoid t ) R n & d de la S sse R m 1933 lm 737

The condition discussed by the author usually follows a [all It is characterized by pains in the scapular region pain on pressure over the coracod process pain on active or passive abduction of the arm and displacement of the arm posterior), and the control of the arm and displacement of the arm posterior of the arm activation of the deltoid and arm as secondary, and requires one time to appear. There is no anasthesia net the tutaneous area supplied by the circumfer nerve Impection of novocain suite the painful region of the

coracoid process enables the patient to perform all

mo ements without diff cults

This cond tion has been attributed to a lesion of the articulation a lesion of the circumflex nerve and subacromial bursitis From a study of fifty three cases the author concludes that the underlying factor is a lesion of the coracoid process analogous to the well known lesson occurring in the anterior tibial tubercle the transverse vertebral processes and the ep condyles He suggests call ng it coracoidius

The treatment should be prolonged rest chanotherapy is contra indicated. A plaster cast i probably unnecessary Injections of novocain ha e given lasting results

### Vertebral Ep physitis and Osteo € Jo 15 8 1933 Snoke P O

The round painful back with irreducible de formity was described by Scheuermann as a clinical The roentgenogram in this condition shows an area of ostertis on the diaphyseal side of the epiphyseal line with wedging of the vertebra

Schmori described an outpouching of the nuclear substance into the spongiosa through congenital or traumatically produced orifices in the cartilaginous plate with resulting Lyphos due to loss of nuclear substance and failure of endochondral growth Snoke differentiates between lesions on the dia

physical side of the epiphysical line on the oppo ing surfaces of the vertebral body and prolapse of the nucleus pulposus due to a pathological change prob ably osteochondritis in the cartilaginous plate. He emphasizes that in cases of definite trauma it is of emphasizes that in cases of demnite trauma it is of importance from the medicolegal point of view to note the onset of symptoms which do not respond to treatment

Chronic 1 rt bral Arthriti (L tébral 5 h n ques) Ren do thop Richard A The author reviews the anatomy of the ertebral

joints and calls attention to the effect on the ner es of malformations hyperostoses and inflammations in chronic ertebral arthritis. The pain from ner e involvement may be referred to various regions and viscera and lead to an erroneous diagnosis oceia and itead to an enoncous diagnosis Chronic vertebral arthrius is of the follo ang fi e

Diffuse vertebral arthritis which is a true type:

2 Arthritis w th a local syndrome the symptom hich depend on the region in olved. The rheumatism regions most frequently involved are the cervical

and lumbar segments Chronic infectious arthritis res lting from 3 Chronic traumat c arthritis

diseases such as tuberculosis syphili Malta fe er gonorrhæa and osteomyel tis

5 Ankylosin, arthritis including the rh zonel spondylit's of Marie and Bechteren's disease Treviously accepted theories regarding condit as belonging to this group are being modified by recent

studies of the glands of internal secretion and by parathyroid surgery

The symptoms of the different types of arthritis are di cussed in detail. Chief among the general symptoms of chronic vertebral arthritis is pain The pain is more intense and more paroxysmal than that of Potts d sea e and is often accompanied by ngidity of the spine The degree of loss of function depends upon the extent and localization of the arthritis and the condition of the intervertebral disks which are the parts of most importance in the mo-

bility of the spinal column. Before the days of roentgen examination the osteophytes which are so frequent in verteb al arthritis often caused neuralgias which led to the most varied mistaken diagnoses. Roentgen exami nation shows not only osteophytes but also ch nges in the bodies of the vertebra the intervertebral disks and the joint processes Profile roentgenograms are of more value than anteroposterior roentgenograms and often it is worth while to take profile roentgenograms from both the right and the left s de The Potter Bucky method 1 used Stereo. roentgenograms are often of value The article contains a number of roentgenograms showing the various pathological changes The ligaments often become visible as the result of o sification

The treatment depends on the nature of the arthritis In the infectious forms treatment of the infection is indicated. Vaccine treatment has pro-ed particularly aluable In syphilitic arthritis mixed treatment with arsenic b smuth and mercury is indicated. In the mycotic form iod des should be given In certain forms treatment at mineral springs combined with rest and the use of analgesics s indicated In tuberculous aribitis and certain indeterminate forms which are impro ed by rest and ag ra ated when the patient leads an active lfe Albee and Halstead grafts ha e gr en good results In rheumatism with a tendency toward ank) losis surgery of the parathyroids has pro ed

In some cases immobilization with corsets and roentgen therapy have proved beneficial Roent en effective therapy i particularly effect e in pre ent ug the formation of osteophytes which i one of the most troublesome features of ertebral arthritis Of the other physical methods of treatment distherm seems to be the most effecti e In tuberculous tuberculin and chrysotherapy may be u ed as adju ants but the es ential part of the treatment is immobil zation of the disea ed part w th grafts

The Anatomical Pecul arit es of gnan it the Anatomical Feeting and the Last Lumbar Interve t bral Disk (D an t much Junghan II Beso d h t n des f nften Le denw rhels und d r less und a deat miten Le denw roess und a :

The lat presacral ertebralies in the part of the body which is most unstable in the period of em bryological development and is subject to special conditions of strain Therefore diseases which occur al o in other parts of the skeleton run an unusual course in the vertebra Osteitis deformans i fre

ouent here Of importance are fusion of the last presacral vertebra with the sacrum (sacralization) and chang ine of the first sacral vertebra into a lumbar verte These two anomalies can be hra (lumbarization) differentiated only when the total number of verte bræ can be determined For practical reasons it is best to designate such vertebræ as lumbosacral transitional vertebræ The form of the transition (widening of the transverse process with or without imp agement on the lateral parts of the sacrum wint formation and sclerosis) varies greatly planation of pain producing transitional vertebræ remures further and more detailed clinical investiga tion It is necessary always to consider also the pusition of the lateral parts of the sacrum as these may be on the same level as the base of the sacrum higher or lower The significance and origin of ac quired transitional vertebræ and of ossification of the molumbar beament are d scussed briefly

A special discussion is devoted to the small inter vertebral joints which may be crescent shaped or flat

Of particular importance are the cleft formations in the vertebral arches I o terior spina bifida of the last lumbar vertebra occurs in from z c to 6 per cent of persons. In spite of the gaping of the spinous processes the apophysis of the spinous process may be present in which case it les in the gap as a free piece of bone. Occasionally such a bone impinges on the spinous process of the next higher vertebra

Of the greatest practs al importance is the cleft formation in the pedicle of the vertebra spondylolists which is the prerequisite of true spondylo thesis On the basis of anatomical and embrs of logical studies these cleft formations must be considered congenital For the purpo e of differ entiating them from true spondylolisthesis the anterior displacements of the ertebræ which occa sionally occur because of particularly oblique sur faces of the small vertebral joints should always be designated as pseudospondylolistheses

Of equal importance with the changes in the last lumbar vertebra are the changes in the last pres cral interverteb al disk. The size of the lumbosacral angle depend chiefly on the c dition of this disk It is certainly questionable whether a small lumbo sacral angle can in itself produce pain as is claimed by the Ame icans The peculiar stra n to which the lumbosac al area of t ansition i subjected account also for the special frequency at this site of inter vertebral d L changes hich in their most severe forms re emble osteochondrosis Characteristic of these changes are a decrease in the height of the intervertebral pace and the de elopment of a sclerosis of the adjacent bone surfaces which are demon strable in the roentgenogram. To determine the e tent to which such a disappearance of the inter

vertebral disk in transitional vertebræ is responsible for the abnormal movements in the newly formed joint between the transverse process and the lateral portion of the sacrum and thereby in the develop ment of a sclerosis at the site further chinical in TUNCHANNS (Z) vestigations are necessary

Benign Non Specific Metastatic Habetler G I chlopuble Synchondritis Occurring in Child hood as a Typical Disease Picture (De gut atge erlaufend un pzische m ta tatische Syn ch drit s is he pubica im kindesalter als typisches kra lhe tsbild) I ch f kl n Ch 1933 clx v 625

The author reports the cases of the disease of the chropubic synchondrosis which because of its acute course with usually an initial high fever is called osteomyelitis The patients were children between the ages of six and eight years the time of normal ossification of the synchondrosi

In this condition could is apt to be thought of first because in the beginning there is complete muscular fivation of the hip joint Covitis is ruled out he ever by the absence of pain on palpation and strain I ain on I ressure is elicited much more readily below the insertion of the adductors in the region of the medial half of the inguinal fold. In the second stage in which the general I vation ceases and there remains only limitation of abduction suggest ing an extra articular process medial to the joint the diagnosis is made eas er by the presence of a palpable swelling In the beginning the roentgenogram offers no assi tance but later it shows rarefactions in the region of the synchondrosis which are usually follo ed by demarcation processes and relatively rapid healing with sclerosis

In the three cases reported operative procedures were not necessary but complete healing has not yet occurred in all Even a sequestrum of the entire symphyseal portion of the os publ and ischium was not extruded O teochondritis and tuberculosis were rule lout SIEVERS (Z)

Burman M S and Sutro C J A Study of the Degenerative Changes of the Menisci of the Anee Joint and the Clinical Significance Thereof J Bone & J : S g 1933 xv 835

After reviewing the literature Burman and Sutro report the findings of a pathological study of 200 menisci at autopsy and 85 removed at operation

They conclude that degeneration of the menisci occurs a a typical change of age but is not always parallel with the age period. They have observed such degeneration in surgically removed menisci injured menisci and meni ci remaining intact in the joint They suggest calling it meniscosis They believe that meniscitis is not an entity

Meniscosis may not be manifested clinically but in the later decades of life may occasionally be the cause of pathological fracture of the meniscus in the absence of trauma and in the presence of arthritis Men scal cysts are of degenerative origin

PAUL C COLONNA M D

# Contracted Toes Australia & Aca

250 Contraction of the toes may be primary or sec Contraction of the toes may be primary or sec Glasan D J

onust, Attnough the humary type is went anown and readily recognized the author has been unable to find any discussion of the primary or idiopathic to nou any unscussion or the primary of suroyacture form in the English or American bierature not some in the causing or american merature mu-

The primary form is characterized by metatarso by the herman in many and metably standing hex features of a clinical entity

four apier and herergenesis and in transcent mer on when vary in negree and in manious souths adult formity It is definitely a deformity of yours and life. Nost of the author's patients were males the Nost of the author's patients were males. Chesan can suggest no definite theory as to the canse of the condition but deems it leasonable to conclude that such a deformity may represent a concurre that such a determined may represent a bological reaction to the conditions of modern civilization under which the feet are used less and less as brobulance organs. However, in some of pie cases there was a pizoty of chronic konouthers with cases there may a manny on amount a price the condition nasting of the legs and feet. As a rule the condition washing in the regarding rest a singular absence of the de is minicial and as a sociated with the secondary

types such as claw foot equinus hallux valgus and Treatment is usually sought because of pain in shortening of the tendon of Achilles the balls of the feet. In some cases pain may occur in the toes Clambs in the legs and feet are tention in the rock of the legs and feet are feet are the legs and feet are feet are the legs and feet are feet

Anatomical changes in the foot are the basis of the condition and must be understood and kept in une common and mass or moderation and kept and mind it operative correction is contemplated. All mino a operative consequence is contempored for Jones namely ship tendons tendon sheaths blood joints namely skill tenous tenous sucatus provide yessels, and nerves are shortened as are the colvesses and nerves are shortened as are the entrangements of the joints. On the plantar sur face the tendons of the long and short flexors especially the former are contracted and stretching pecially the further are considered and redundancy of the plantar sort issues are pro-

duced by the bincibal doisal contracture In discussing the secondary form of contraction of the toes which is so often associated with claw foot pallux values and equinus and may follow poor namus saigus anu equinus anu may pounos burns of the foot the author emphasizes that as this cond tion is so constantly associated with hallman conduction is so constainty associated with natural algus it must be regarded as a part of the general argus it must be regarded as a part of the g to same the treatment should be conservate e pur prosource the creatment should be conserved a out-

operatus correction as necessary, of the conservative treatment which should always the conservative treatment which should be conserved to the conservative treatment which is the conservative treatment which is the conservative treatment of the conservative treatment which is the conservative treatment of the conservative treatm be tred in the early cases consists principally of ne cried in the early cases trusted joints with active only strending of the constacted Joints with active attempts to first and extend them attempts to first and extend them which is foomly should wear a low heled flat show which is foomly and the constant of screen were a row necrea has some wanted as county in front and will allow for an increase in the length of the foot as the contraction is overcome or the lowers as the contraction is overcome a total Linear men on hom anymore no currently to topic e tree

In the advanced stages in which operation is un In the advanced stages in which operation is in dertaken the author uses a technique consisting decreased the author uses a recomple consisting essentially of division of the tendons ligaments essentially of division of the tenuous assumers or forth Capsules which because of their contraction are factors in the deformity. The correction this are factors in the deformity.

are factors in the determing the

# SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Extra Articular Arthrodesis of the es K N Extra accionas aestropesso o 86 Jones R W

The position of election for anhylosis of the shoul are rossition or economic tune shoulder is the shoulder is uer june 10000ming rusercums of the showing is abduction at an angle of from 70 to 80 degrees ex annuluna at an angle to 100m 70 to 20 degrees ex ternal rotation of 30 degrees and forward flexion of ternal rotation of 30 degrees and forward netron of 30 degrees. For Permanent anhylous this position nust be maintained for from three to fi e ) eass lones advises extra articular fusion of the spoulder joint in the terminal stages of the disease to maint joint in the resource stages of the disease to it anayous and present recurring unionmy per pninetaj peag teznita in consideta pje inwata grabjace Prenernop ne tine Rieno n ann tine Riester batt ni ene

nent of the upper end of the humers which leaves ment or the upper entrol the actional process projecting be order. A next set the acromal process projecting be order. the actomian process projecting beyond it an extra acroming into the upper shaft of the humerus. In answer and the upper success to obtained between the huneans and the scalnia authorit encoscinus on the diseased area and the cosmetic appearance o

In the technique used by the author a straight in casion with its center on the tip of the accomthe shoulder is improved

process is made o er the point of the shoulder T process is made o et de point of the should between the extended upward for about 3 in midway between the claricle and the pine of the scapula and do ward for a similar distance Both upper and k antaces of the actomion brocess are itespence proad flap of bone 1 in wide and 2 in long is t from the outer surface of the upper end o humerus and le ered outward. The cla rele at summerus and the scapula are partly fractured a few apducted position the whole acromodavicing from their outer ends and acted downward binging at the point is angulated cownward chaging at the point the bones were half fractured and is wedged the names were nan tractured and is weiged neath the flap of bone. The fixabon ma neath the gap of bone. The transh ma osteoperosteal grafts fr m the tibia ma planted. The wound is closed in layers an immobilized in a plaster spica in abduc degrees forward flexion of 30 degrees at

After removal of the surches a plaster rotation of 30 degrees applied and after four m nths is replace duction frame f roentgenograms show The frame is discarded as soon as the de eloped mo ements of the shoulder

Legition me emenes or me summer interval of time has elapsed for the operation to be judged. In no case

11:20

aggravation of the disease or recurrence elsewhere and in all three cases bony ankylosis resulted RUDOLPH S REICH M D

## FRACTURES AND DISLOCATIONS

Contra Indications to Massage and Boehler L Passive Movements in Fresh Bone and Joint gegen Ma sage u d Injuries (Offene K mpans pa i e B wegung n bei frischen k ochen und Glenk I tzunge ) Mie h med lich sch 933 11

Three requirements in the treatment of bone frac tures are (1) exact reduction of the displaced frag ments (2) continuous fixation of the fragments until bony healing in good position has taken place and (3) during the immobilization of the properly re duced fragments sufficiently active use of as many as possible or all joints of the injured limb and of the entire body with avoidance of pain to secure good circulation and prevent muscle and bone atrophy

and joint stiffening

Fractures in which the fragments are not dis placed will heal in good position under any method of treatment and even without treatment if injury to joints muscles tendons ves els nerves and skin 1 avoided F en though they are not the best treatment early movement and massage are better than the use of thickly padded plaster casts or splints. In a young person a joint that has not been destroyed by injury and is not diseased cannot be come stiff even when it is retained for a long time in an unfavorable position. So far as the functional end result is concerned it makes no difference whether such a patient is treated vith padded plas ter dress nes or by massage

The assertion has often been made that effus ons of blood disappear more rapidly if massage is used but Boehler states that he has never seen a hæm orrhagic effus on in the soft tissues which did not disap pear spontaneously just as rapidly as and often more rapidly than effusions treated by massage. How ever for bloody effusions in body cavities and under the scalp or the lumbar fascia puncture is neces

When the di placed fragments are accurately reduced and maintained constantly in good position the limb is free from p in In parts of the limb that are not immobilized active motion to the fullest extent is possible. F esh traumatic swellings dis appear if the arm is suitably elevated on a double right angled splint or the leg is elevated on a Braun splint and late swelling is avoided if all of the free joints are mo ed actively

In cases of joint fractures stiffness is best pre vented by effecting as perfect a reduction of the dis placed fragments as possible and pre enting too early movement of the involved part of the limb

In fractures in which the fragment ends are poorly nourished massage and passive movements favor pseudarthrosis In fractures in the region of the elbow massage and passive movements lead to

extensive ossification of muscles and ligaments The occurrence of muscle atrophy during prolonged immobilization need not be feared for if the dress ings are properly arranged the muscles can con tract strongly even when the limb is immobilized With immobilization of the wri t in fracture of the radius all of the forty muscles of the hand and fore arm can function and the tendons of the fingers can move actively against one another more than 6 cm If a fractured joint is accurately reduced and main tained constantly in good position until bony con solidation has taken place and at the same time the fractured limb is used a freely movable joint is usually obtained but if from the first day massage is given and passive movements are made the joint In fresh bone fractures and becomes stiff or loose toint injuries massage and passive movements are dangerous as they can be carried out only by inter rupting the immobilization and this favors redis placement of the vell reduced fragments physical therapeutic measures including massage and passive movements should be delayed until

bony union has taken place In the cases of older persons there should be no return to heavy work until several weeks or months after complete bony consol dation has occurred. In such cases physical measures offer an excellent means of bridging the gap in time Fspecially in sured persons will insist that something be done for them in the interim Strength returns most rapidly under systemic work exercises and active movement of all joints. Only in this way can atrophy of the muscles be prevented Fvery year many thousands of injured persons are permanently crippled by mas sage and passive movements O STABL (Z)

Crétin A and Pouyanne L The Action of Cer tain Metals on the Repair of Bone (Act n de quelques métaux sur la consolidati n o e se) Bo dea 1x ch + 1933 No 4 321

After an experience of thirty years surgeons are not in agreement concerning the results of metallic internal fixation of fractures of the long bones However after an initial popularity the method has fallen quite generally into disrepute and the technique has become more diversified instead of standardized The dissatisfaction with the use of metal prostheses is due to the frequent failure of consolidation to occur under what appear to be satisfactory mechanical conditions. The authors be leve that improvement of osteosynthesis will be obtained not by further variations in the technique but by a study of the biological effects of the method

One of the factors in osteosynthesis requiring further study is the influence of various metals on the format on of the callus A number of investiga tions of this problem have been carried out but most of them with crude methods and with results that have often been conflicting. The conclusions of various surgeons are summarized briefly as follows

Aluminum is absorbable (Duval Elsberg and Danborn) It is not absorbable (Zierold)

Silver is perfectly tolerated (Lemerle) It is only fairly tolerated (Zierold)

Corper sumulates the formation of bone (Zie

rold)
Iron is toxic (Leriche and Policard) It fanns

consolidation (Lange) It is without effect (Rolland)
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bone production and according to / erold it in
hibits bone production.

Nickel is without effect (Potarca) It i stimulating (Hev Groves) It is harmful (Zierold)

Lead is without effect on the tissues (Zierold)
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formation (Zierold) In certain combinations at
stimulates the callus (Le Crand) It is merely well
tolerated (Rolland)

In the investigations earmed out by the author poses of metal were fixed at the sites of fractures which were produced in rabbits. The implants were both intramedullary and estramedullar. At the end of two months the animals were starnfixed and the specimes, studied macroscop cally, and in croscop calls. The distribution of any metal absorbed at the sites of the fracturer was det immade 1s. treating the tissues with the fracturer was det immade 1s. treating the tissues with the exhibit form involuble componeds with the metal. The most useful and widely appeals and only a start of the products a more start of the start of

Alaminum When an intramedullari, prosthesis was used the metal was not corroded. When treat was not convoided. When treat was he can be surrounding muscles showed a marked recept with relations as the surrounding muscles showed a marked recept with the call's which was abundant and composed of osterod tissue was markedly defeored in calcular repair was retarded When an erternal prosthesis was ussed the call was solid and the metal unaltered Vicroscope examination showed penetration of the calling the alumnum and lack of fixation of calcum by the osteroid tissue.

Silver When an internal prosthesis was used the metal was slightly blackened. The callus was solid and there was a small zone of necross. On mucrocopy ceramianton munited quantities of soliter were found about the re-formed ha ervain canals. The found about the re-formed ha ervain canals have been supported by the companies of the refound about the re-formed have the same. The metal was solidis embedded in the callus There was immain retardation of repa r

Calcium Calcium introduced into the issues be came quickly overed by a film of the hid oxide. The immediate action was caustic but this effect was of short duration. Although the rue metal is rechamically unsuitable for a provident in interest because of the postion of the medilar only be related to the product in the medilar only be related to the result of the medilar only the related to the results of the related to the results of the results of the related to the results of the results of the related to the results of the related to the results of the related to the

which seemed to prevent restoration of the of the bone at the .i.t of fractic, and ulted in failure of electrive consolidation. extramedulary prosthesis was used, trpa tained with an excessively large callus whitemore rap div than normal. These finding that calcium incorporated in an allow mapowerful stimulant to repair.

Copper Copper emplo eduternalls or had a cytotome effect which was very batten because the diresthility of the saited. Consequently copper influenced bittle if at all. On microscopic examins alts were found in minute quantities an in the cell funder.

In one cell anguet.

Iron When Iron was placed in the med was extensive impregnation of the new of the newhoring epids seed earlings, the prosthesis the cells showed de energing the desired of the desired profit was stimulated it do orderly character. There was little do featlingfaction. The u e of an extra-osco resulted in little impreenation of the beaulier was executall normal.

Usgnessim. When marcessum was the medula it was partially absorbed. I marked simulation of the connective die the callus with marked retardation of on When the fixation was estramediusary pregnation of the bone was limited to the The metal was partiall absorbed. The cooled and microscopically normal. The mbad a stimulation of any effect.

Videl. Videl employed either a traor extra-osseously stimulated cellular procausing an inflammatory aspect. The reshypertrophied, rierular calles. The nickel's chiefly in the connective tissues.

Lead Intramed. Bary implants of lead definitely torn effect on the call and re n all respects. On microscope examine lead was found in the haversun canals. Head was employed externall a solid ciobtained. The new bone showed signs of torn but the total effect on the call is we.

Zinc When zinc was placed either with side of the medullari cavity there was incross, extreding e in to the muscles, then there was a disorded immulation e physical cartilla e. The infiltration of the tissue with calci m was distribed.

The autho's conclude that all metals are degree toxic. Some of them ar well t lers others s ch as magnesium and calcium t hans be employed to ad antare in allow

ALBERT F DE CRON

Schneid r C. C. Acromicelancula Di 1
Autopla ne Recon truction / F

of their properties

The a thor describes his technique f struction of the acromodavicular and the

clavicular ligament with the use of fascia lata for fivation in acute and chronic dislocation of the

acromioclavicular articulation

In this procedure the inferior acromioclavicular ligament i restored with a mattress suture of a In fascial loop each end of which is carried down ward through a clavicular drill hole lateralward across the inferior surface of the joint and up through its respecti e drill hole in the acromion The end of the loop are crossed on the upper surface of the acromion and sutured to each other with twi ted silk. The coracoclavicular ligaments are then recon tructed by carrying a strip under the lover surface of the coracoid process and upward behind the clavicle subperiosteally at the site of insertion on the trapezoid and crossed There the on the upper surface of the clavicle loop under tension is sutured with braided silk The ends of the loop are drawn along the upper sur face across the acromioclavicular joint and sutured together with silk to the acromial end of the acro mioclavicular ligament previously di sected up the I gament being thus restored. In the manner all of the ligaments necessary for the integrity of the acromioclavicular joint are reconstructed and the clavicle is held firmly in position

ELVEN J B HEI ER M D

Ruge E Closed Injures of the Spine (Die ge schl e verletz ginder Wilel 1) Ergeb d Ch 933 xx 1 63

Because of their frequent occurrence in traft c accidents and because of the improvement of roent genological diagnoss by the use of a movable diaphragm injuries to the spine have been the subject of scientific discussion by many surgeons dur-

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unilateral

Between the sixth and ninth years of life marginal apophyses occur on the growing spine and there appear at the ends of the transverse and spinous processes small valvular apophyses which may be confused vith the results of injury In the third decade these apophyseal nuclei tend to disappear Other abnormalities that must be taken into ac count in the interpretation of roentgenograms of the spine are (1) fis ure formations of the vertebral a ches which are more frequent in the cervical and lumbar segments than in the thoracic segment and usually produce median defects occurring less often in the middle of the halves of the vertebral arches (2) failure of union of the pedicles of the arches which leads to spondy lolisthesis and (3) e crescences on the cervical and lumbar ribs which are usually

The weight bearing capacity of the normal spine depends less on the firm structure of the vertebral bodies than on the internal pressure of the entire number of intervertebral disks and the degree of the physiological curvatures of the spine. In old age osteoprosis and degeneration of the intervertebral disks leads to kyphosis of the thoracte spine. Defene attion of the intervertebral disks leads to kyphosis of the thoracte spine. Defene attion of the intervertebral disks and dehy dra services are the contractions of the contraction of the intervertebral disks and dehy dra services are the contractions of the contraction of the cont

tion of the nucleus pulposus are also factors determining spondylarthrosis

Very midd injuries to the spinal column contu ion and strain tan be diagnosed only by excluding bony injuries by reentgen examination. The pain is usually most severe at the level of the tenth thorace vertebra. Spines thus affected present malformations of greater or less importance. The spindylitic spine is especially easily injured. The cartilaginou modules described by Schmorl which are formed by a breaking through of the substance of the interview of the control of the cartilaginous cart

very frequently without demonstrable trauma In consequence of the increase in athletics and traffic and the frequent use of roentgenograms for diagnosi the incidence of fractures of the spine in relation to all bone fractures has increased from o 33 per cent in 1877 to 3 8 per cent in 1929 Frac tures of the spine occur more often in men than in women most frequently at the juncture of the thoracic and lumbar segments and much less fre quently at the juncture of the cervical and thoracic In about one fifth of the cases more than one vertebra 1 fractured In most cases the patient was in a stooping posture when struck by the force causing the fracture The spine is bent to excess and fractures partially There occurs a sprain fracture or contusion fracture a wedge shaped collapse of a vertebral body at the thoraco lumbar juncture with the apex usually pointing anteriorly and less frequently laterally. When the action of the force is diminished one or more of the bony fragments may separate and cause spinal cord mjury and paralysis (one sixth of the cases) The we ght of the falling human body and even muscle pull in a movement of defense can bring about the fracture of a vertebra A blow in the back from the pole of a wagon or the horn of a cow can cause the much rarer direct fracture. This is characterized by injuries to the vertebral arches combined with injuries to the processes and the body of the verte bra The well known signs of simple compression fracture-pain stiffness of the back and the forma tion of a kyphos-are usually only incompletely developed Often there is only a slight projection of a spinal process

I articularly difficult is the differentiation between diseases caries osteomyeliti spondylitis deformans and old fractures of the spine. Repeated roenteen examinations demonstrate the formation of callus

The average period of di ability caused by a compress on fracture is seventeen weeks. The insurance drops from an average of 45 per cent to barely 30 per cent. Frequently fractures of other bones particularly of the os calcis occur simultaneously sometimes transient himmatura and concussion of the brain occur. Spinal concussion with bladder and rectal disturbances dimmution of the refleves and disturbances dimmution of the refleves and disturbances of sensation is not easily to be distinguished from inter-rettebral hematomata

According to Magnus the treatment should be conservative—four weeks of bed rest flat on the Silver is perfectly tolerated (Lemerle) It is only fairly tolerated (Zierold)

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Aluminim When an intrainedullar, prosthesis was used the metal was not corroded. When treat was not corroded. When treat was not corroded. When treat with calcium sails: the epithy seel cartilage and the surrounding muscles showerd on marked receptive. The califies which was abundant and composed of osteod tissue was narkedly, defeored in Calcification but not cellular repair was retarded. When an external prosthesis was ussed the calling was solid and the metal unaltered. Vicroscopic examination showed penetration of the calling community and lack of fixation of calcium by the costeod tissue.

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which seemed to prevent restoration of the, of the bone at the site of fracture and a suited in faulure of effective consolidation, extramedulary prosthesis was used repartamed with an excessively large cellus which more rapidly than normal. These find one that calcium incorporated in an alloy may powerful stimularit to restorate the properties of the

Copper Copper employed internally ore had a cytotoxic effect which was very liextent because the diffusibility of the saltited Consequentic copper influenced boylittle if at all On microscopic examinasalts were found in minute quantities and in the cell nuclei.

from When from was placed in the medy was extensite impregnation of the new ho of the neighboring epiphyseal cartilage the prosthesis the cell showed degeneration at a distance growth was stimulated by disorderly character. There was little duy of calcification. The use of an extra-ossou resulted in little impregnation of the box callus was essentially normal.

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The authors conclude that all metals are degree toxic Some of them are well tolerat others such as magnesium and calcium maps be employed to advantage in alloys of the r properties Albert F D. Grour

Schne der C C Acromioclavicular D slo Aut plast e Reconstruct on J B e

The author describes his technique for struction of the acromioclavicular and the clavicular ligaments with the use of fascia lita for fivation in acute and chronic dislocation of the acromoclavicular articulation

In this procedure the inferior acrom oclavicular ligament is restored with a mattress siture of a in fascial loop each end of which is carried down ward through a clavicular drill hole lateralward acro s the inferior surface of the joint and up through its respective drill hole in the acromion The ends of the loop are cro sed on the upper surface of the acromion and sutured to each other with twisted silk. The coracoclavicular ligaments are then reconstructed by carrying a 'in fascial strip under the lower surface of the coracoid process and unward behind the clavicle subperiosteally at the site of insertion on the trapezoid and crossed on the upper surface of the clavicle There the loop under tension i sutured with braided silk The end of the loop are drawn along the upper sur face acro s the acromioclavicular joint and sutured together with silk to the acromial end of the acro mioclavicular ligament previously dissected up the beament being thus restored. In the manner all of the ligaments necessary for the integrity of the acrom oclavicular joint are reconstructed and the clayicle is held firmly in position

LLVFN I B RAHEI ER M D

Ruge E Closed Injuries of the Spine (Die ge schl ssene Ve let gin der W bel ule) I geb d Ch 1933 x 63

Because of their frequent occurrence in traffic accidents and because of the improvement of roent genological diagnosis by the use of a movable diaphragm injuries to the spine have been the subject of scientific discussion by many surgeons durrog the last ten years

Between the sixth and minth years of life marginal apophyses occur on the groving spine and there appear at the ends of the transverse and spinous processes small valvular apophyses which may be confused with the results of injury In the third decade these apophyseal nuclei tend to disappear Other abnormalities that must be taken into ac count in the interpretation of roentgenograms of the spine are (1) fissure formations of the vertebral arche which are more frequent in the cervical and lumbar segments than in the thoracic segment and usually produce median defects occurring less often in the middle of the halves of the vertebral arches (2) failure of union of the pedicles of the arches which leads to spondylolisthesis and (3) excrescences on the cervical and lumbar ribs which are usually

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In consequence of the increase in athletics and traffic and the frequent use of roentgenograms for diagnosis the incidence of fractures of the spine in relation to all bone fractures has increased from o 23 per cent in 1817 to 3 8 per cent in 1929 Frac tures of the spine occur more often in men than in women most frequently at the juncture of the thoracic and lumbar segments and much less fre quently at the uncture of the cervical and thoracic segments. In about one fifth of the cases more than one vertebra is fractured. In most cases the patient was in a stooping posture when struck by the force causing the fracture. The spine is bent to excess and fracture partially There occur a sprain fracture or contusion fracture a wedge shaped collapse of a vertebral body at the thoraco lumbar juncture with the apex usually pointing anteriorly and les trequently laterally When the action of the force 1 diminished one or more of the bony fragments may separate and cause pinal cord injury and paralysis (one sixth of the cases) The weight of the falling human body and even muscle pull in a movement of defense can bring about the fracture of a vertebra A blow in the back from the pole of a wagon or the born of a cov can cause the much rarer di ect fracture. This is characterized by injuries to the vertebral arches combined ath injuries to the processes and the body of the verte The well known signs of simple compression fracture-pain stiffness of the back and the forma tion of a kyphos-are usually only incompletely developed Often there is only a slight projection of a spinal proce

Particularly difficult is the differentiation between diseases caries osteomy elitis spondy litis deformans and old fractures of the spine Repeated roentgen examinations demonstrate the formation of callus

The average period of disability cau ed by a com pression fracture is seventeen weeks. The insurance drops from an average of 45 per cent to barely 30 per cent. Frequently fractures of other bones particularly of the os calcis occur simultaneouslysometimes transient himmaturia and concussion of the brain occur. Spinal concussion with bladder and rectal disturbances dimension is not easily to be distinguished from interverteeral hammatomata.

According to Viagnus the treatment should be conservative—four weeks of bed rest flat on the

back and early massage of the erector muscles The patient should not be allowed to sit up until the fifth or sixth week and should not be allowed to leave his bed until two or three weeks later plaster bed and a supportive corset should be avoided as they favor muscle atrophy Boehler loosens the impaction by hyperextension and orders a supportive corset Reposition is particularly urgent when there is paralysis American surgeons favor the Albee and Hibbs and losing operations In cases of fracture th paralysis and cord amptoms they perform a laminectomy German surgeons prefer conservative management because the paralysis may be rau ed by a subdural or submeningeal hamatoma and prove transient. However Schmieden has shown that a penetrating fragment of bone can contuse the cord and must be removed. The only contra indica tion to immediate laminectomy is severe shock Complete transverse paralyses are hopele with or

without operation Of 104 closed compression fractures observed by the author in which the ratio of fractures of the cervical vertebra to fractures of the thoracic vertebra, and of fractures of the thoracic vertebrae to fractures of the lumbar vertebræ was 2.1 8 cord injuries were present in 86 per cent of the cases of fracture of the cervical vertebre 48 per cent of those of fracture of the thoracic vertebra and so per cent of those of fracture of the lumbar vertebra In the first group the average period of disability was twenty two and a quarter months in the second five months and in the third from five to seven months. At the end of the first year the decrease in earning power was as a per cent in the cases of fracture of the cervical spine 44 5 per cent in those of fracture of the thoracic spine and 17 8 per cent in those of fracture of the lumbar spine. At the end of the second year the corresponding heures were 31 2 36 1 and 27 7 per cent and at the end of the third year 31 2 30 and 14 per cent As a sequel to paralysis of the bladder there often

As a sequel to paralysis of the bladder there often develops an ascending infection of the unnary passages with subsequent stone form tion in the kidney. Such stone formation may occur also in the absence of fracture of the spine.

There is much dispute as to whether humanile disease delayed collapse of the ertebra follow is g trauma is a chinical entity. The explanation of the collapse is that the original fracture was not promptly recognized.

In tetanus a vertebra may fracture as the result of spasm

Vertebral di locations occur only in the cervical spine and are fatal in ,5 per cent of cases. Rapid reduction gives good tesuits but the results of operative reduction are poor. Other vertebra can become dislocated only after the breaking off of an articular process.

Injuries to intervertebral disks occur most fre quently in oblique fractures of the vertebral bodies but if degeneration is already present they may occu as isolated injuries Epiphyseal separation and separation of laginous plate are rare and occur only persons. On the other hand fractures of ginal cre ts of the first lumbar vertebrifrequently demonstrated by roentgen ray tion from various angles.

In direct fractures the spinous proce! breaks off completely whereas in indirect only the tip is broken off Fractures from pull occur most frequently in the spinous of the sixth and seventh cervical and the second thoracic vertebræ Fractures of t verse processes often occur as accompanother injuries to the spinal column but rare as isolated injuries. They are for often in the third and fourth less often it ond and least often in the first and fift! vertebræ Multiple fractures of the transvi esses are usually found on one side on parently they are caused by reflex muscle p bed rest massage and non use full world is usually restored in from six to eight we

Isolated fractures of an arch are usually ognized until after the appearance of cally reentgenogram. Like fractures of the articlesses they are caused by the action of force. Pressure on the cord makes operated any According to Ludloff fractures of the processes rive rise to audible creoutable.

Fracture of the body of a vertebra is 1 in the cervical spine On the other he atlas and epistropheus are frequently expo jury Of 3 fractures of the atlas cited author 6 were fatal. The odontoid proceepistropheus is frequently broken off in juries Dislocation in the atlanto-epistrof ticulation is apparently impossible without of the odontoid process Fracture of the process is usually the result of indirect traut ably caused by muscle pull In fracture odontoid process bony healing usually does! and reds location and death may result at a from six months to twenty three years # injury It is as yet too early to express an as to the value of Albee's bridging opera

the singury

Di locations of the cervical ertebræ and
of the cervical vertebræ from the third
downward are rare and appear to be posafter the articular or transverse crocked at
description of the activation of the description of the activation of the
deformity the rigidity and any cord symf
paraly see that may be present it can be micertainty only with the aid of reedigeograattempt at responsion appears in ficated

In the lumbar spine a fracture from 35's occur in lifting when there is sudden relate lumbar musculature. Sacral pains are because of pressure on the fifth lumbar a bony canal that is too narrow but because formation of marginal proliferations. The minute of the sacratic formation of marginal proliferations.

tion known as spondylolathesis which is due to arrest of development of the arch portion of the fifth lumbar view may become painful as the result on compensuely sight trauma. For fraction of the fifth lumbar vertebra severe injury is necessary. If conservative measures are not successful the Albee or the Hibbs operation is

In the sacrum compression fractures of the sacrum vertices are possible in almost all cases they are associated with fractures of the public bone or suchami. However fissures are more frequent than compression fractures. Caudal symptoms are not uncommon. A characteristic symptom of fracture of the sacrum is mability to sit for any con iderable length of time. Fracture of the excevy can be detected more easily with the palpating finger than by reentigen examination. If there is forward displacement stool retention may result If conserva the therapy fails operative removal is advisable.

According to Gaugele deforming spondylosis is a accessed it the intervertebral disk. Vertebral callus on the other hand is confined to the injured verte bra. However, the possibility that a spondylosis of the vertebral column may be made worse by a severe

trauma is not tuled out

A causal connection between Bechterew's disease attributed to infection and trauma is rejected

Osteomy eltic processes attack chiefly the arches and processes and less frequently the bodies of the lumbar vertebra: Trauma can be recognized as a cause only when it has resulted in a hammous which has suppurated and involved the periosteum Trauma as a cause of tuberculosis of the spine is still less probable Descreek (2).

Lamy I Congenital Dislocation of the Illip A Statistical Study and a Consideration of Loor Results (Luxation c génitale de l b che Statista et tima s ré litis) B II i mén S c d che f et d l 1933 x 441

In the author's method of reducing the congentually discotted hip the reduction is do a under general anaesthesia and the first position of the limb is Besson of go degrees with adduction of go degrees. The limb is left in this position for from three to fourmonths. The position is then changed to extension of 120 degrees abduction of from 30 to 30 degrees and pattern I rotation of from 30 to 30 degrees and pattern I rotation of from 50 to 30 degrees and the end of that this pos it on for three months. It the end of that the first open of the second of the plete extension adduction of 100 degrees of the conlocation of 80 degrees. The limb is left in this position also for three months.

On complet on of the treatment and remoral of the apprarus the child is bent in bed for one month bungs the first two weeks of this month treatment with light massage and ultraviolet light is given During the second week the child is allowed to get up for periods of five mutuet 4 or 5 times a day During the econd month he is allowed up for fie mutates even bour He is not allowed to walk slone mutates even bour He is not allowed to walk slone

before the third month. After from six to eight months normal walking is allowed for periods which do not exceed half an hour and are separated by long perio is of bed rest.

Stati ties are presented on 500 ca es treated by the closed method prior to 1012. Eighty, nine and two tenths per cent of the patients were girls and 63 per cent of the dislocations were bilateral. The in cidence of bilateral di locations was about the same in both sere.

The treatment resulted in a chinical cure in 430 cases and failed in 70 (14 per cent). The incidence of clinical failure is as 28 per cent in the cases in which both hips were dislocated and only 6 per cent in those of dislocation of the right hip alone.

In 402 reductions in the cases of patients up to the age of four years the incidence of failure was only 98 per cent whereas in the cases of patients over five years old it rose to about 30 per cent

Light cases with poor functional results are reported. The reentgenograms show that the failure was due most often to trophic changes in the head and neck of the femur

The author believes that immobilization produces demineralization of the femu which may be sufficient to cause spontaneous fracture or deformity of the femoral neck fraumatism from the effort at reduction (particularly when the method of open reduction is used) may lead to the phenomena of osteo arthritis. To decrease the effect of complete immobilization Lamy has been using a special type of plaster spica which permits devon and extension at the kine. He emphasizes the importance of good medical treatment dest regulation and treatment with ultravolet light. Warm W FOOLT VID

Wardle E N The Etlology and Treatment of Slipped Epiphysis of the Head of the Femur B t J S g 933 vv 313

The author divides cases of slipped epiphysis of the head of the femur into two groups. In one group he places the cases with disordered glandular function in which epiphyses other than the epiphysis of the head of the femur are also involved. In discuss ing this group he cites the theory advanced by Acocher in 801 that the slippin, of epiphysis of the Acocher in 801 that the slippin, of epiphysis of the Machanian which the slippin is the slippin of the malicia which tending the slippin is discussed only recently formed bone weakens the attachments of the epiphysical cartilage and metaphysis.

The other group of cases distinguished by the author are those in which indirect trauma has involved the epiphy sis and no joints other than the hip joint are involved. In both groups the body weight and muscular action are secondary factors increasing the deformit.

In his discussion of the treatment the author condemns open operation for correction of the de formity in the primary stage because of the dis couraging statistics of those who have tried it For cases in which bony fusion between the epiph yeas and the metaphysis has left a disabling de formity he regards subtrochanteric osteotomy a the operation of choice

The author's treatment 1 con existic consist mg essentially of traction on the injured hip in a position of relative adduction. This is carried out means of a fitted frame which is essentially a Jones spinal frame with extens on ends attacked to the leg pieces simular to the distal field of Thomas splint. The outifit includes a groin string attached over the affected sade which acts to prevent more adduction than the small amount necessary. Both legs are included in the traction is order to prevent inling of the pelvis. The stabilization of the pelvis adhesive the stabilization of the pelvis and the pelvis The stabilization of the pelvis The tendence of the pelvis The stabilization of the pelvis T

The author emphasizes the importance of careful nursing to reduce the possibility of the usual diffi

cultues a sociated vith immobilization and In his cases roentgenograms are mad e weeks and viben the epiphysiss fault), in tion an arbitrary period of perhaps one allow de for the reposition to become say patient is then removed from the frame as to be free in bed and non we ght bearing for the affected high are in tutued. The are continued until no further increase in of mot on can be gained. The time require stage to be reached varies in different high the high stage of treatment a walking in ed for a period of a year from the beguin treatment.

The article includes a number of roents showing the progress made in reduction maintenance of the femoral neck by the which the author recommends

TAMES K STA

## SURGERY OF THE BLOOD AND LYMPH SYSTEMS

## BLOOD VESSELS

Ipsen J Arternal Reflexes (Arterne fl e) 11

The author has attempted to elucidate some of the reflex arcs influencing the arteries. The un vestigations were carried out chefly by measuring the superficial temperatures. The commonly used term vasimotor of sturbance has been shown to be inadequate and often misleading. It is necessary to di criminate between changes in noolir (capillar changes) and changes in temperature (arterial changes).

The innervation of peripheral arteries is reviewed briefly particularly with reference to the anatomy and physiology. It is emphasized that contraction of arteries may take place independently of the nervous system through the blood stream or through

the surroundings

A number of skin reflexes of superficial atteries are described especially reflexes to rold temperatures and it is shown how different reactions are brought about by greater or lesser degrees of cooling. The author mentions also attenal reflexes caused by heat and inflammation and some special vascular reflexes.

In an investigation of the reflex arcs by division of nerves it was found that the arterial spasm which occurred can be explained by the elimination of the

controlling asodilating function

The artenospasm occurring frequently in polio myelius is apparently the result of similar inhibition of the vasodisting function From pathon anatomical nerve change in poliomvelius it sense to be clear that the inhibiting function occurs from the nucleus lateral is sympatheticus in the spinal cord. Therefore it is accessart to presume a per off the control of the first of the control of the minimal period of the first of the control of the minimal period of the first of the control of the minimal period of the first of the control of the first of t

The author describes po t traumatic reflexes and submits a hypothesis regarding their nature

In conclusion he iscusses the importance of opera t ons on the cerebral centers and the arterial reflexes occurring during narcosis

Gloia E Accid ntal Injury to th Common Ca rottd Art ry Double Ligation Reco ery († nta 1 t 1 d ll c t depnim t d pp llac t g ng n 1 t k i l d k 933

The author reports a c e of injury to the common caroti i a tery in a woman forty-one years of age

The cause of the injury was a fragment of plass haried from a shattering wine bottle. Examination revealed a small wound approximately 1 cm long on the left side of the neck below the angle of the jaw from which a foreful rhy himcal jet of blood es caped. In the first and treatment pressure bandage were applied as tightly as possible.

On the patient's admi sion to the hospital the pulse was of good quality. The left temporal pulsa tions were not so forceful as the right. When the neck bandages were removed the small wound was found covered by a clot and a nut sized swelling was apparent immediately beneath it. The swelling was dit tintly pul ating and it increased in size rapi lik.

as the external pressure was released

An incision was made along the sternocleidomas told muscle under local anasthesia and after con siderable diff culty the bleeding was traced to the common carotid artery Gentle traction on a liga ture passed beneath the artery disclosed an irregu lar stellate laceration of the artery approximately I cm from the bifurcation of the artery When the tear was grasped with a hemostat the patient sud denly became pale and respiration ceased. On removal of the hamostat and the hypodermic injection of adrenaling the nations as color as restored and re piration began immediately \ silk I gature tied securely below the arterral laceration did not stop the hæmorrhage The bleeding continued from the distal or superior margin of the tear and necessitated the application of a ligature just above this point The spicule of glass could not be found. The in cision vas closed ith a small drain and the patient returned to bed

Salt solution vas given by hypodermoclysis. As the patient was known to have hypertension blood

transfusion was deemed inad asable
On the second day the blood pressure reading in

the right arm was 145. It was not taken in the left arm. On the eighth day the reading vere right arm. 115 left arm. 130. On the lourteenth day they were right arm. 125 left arm. 140. I atter examina tion sho e I the pressure to be the same on both

ray examinations from all positions failed to

di close the presence of a foreign body
The wound healed by primary intention. Recovery has uneventful. The patient was discharged on

ery vas uneventful. The patient was discharged on the fourteenth day after the operation and is still ell

Reports of injury of the common carotid artery are extremely rare if war wound are excluded. The mortabity of such injuries is high when treatment is delayed.

Duplay an 1 Reclus Coudray and others have called attention to the persistent bleeding from the upper end of a laccated common caroud artery Morganu and Valsalva 1 orted it in experiments on doors. Experiments on doors. Experiments on the common caround best een the roommon caround of one side and that of the other by way of the external and internal caroutds. Following legators of one common carout arter, a refux or retrograde flow is established which satisfactorily supplies a compensatory circuit into the structure dependent upon these branches for their supply of blood. Travers Brown and others have successfully stopped hemorrhage in man others have successfully stopped hemorrhage in man

by a ingle ligature below the torn common carotid From a review of the literature the author draws

the following conclusion

- 1 When it is inexpedient to suture a tear of the common carotti artery a double h stare—above and below the lacer tron—will control the bleeding sati factorily
- There is usually an adequate communication between the carotids of the two ides by wa of the internal and external carotid arteries the refux flow from the communi
- cating branches a single ligature below the tear is freq ently insufficient to stop hamorrhage 4. In cases in which this collateral circulation is preserved no cerebral symptoms or lesions will result

## BLOOD TRANSFUSION

GEORGE C FINOI MID

Breitner B Indications for Blood Transfusion (De Anzeige telling zur Bluttransfusi n) Ch urg 1933 v 53

Blood transfusion should be limited strictly to its proper indications The following questions are still to be answered

- 1 Are there diseases in which blood transfusion is niturious? Breither describes three case of sepsis in which he was unable to escape the impression that there are such conditions. In these cases there were no transfusion injuries or injuries of the heart or lidneys. When such cases are collected and studied at autopsy the answer to the question may be found.
- 2 Why are blood transfusions sometimes unsucces ful? Contrary to the theory most generally

accepted Brettner believes that sopue conare chiefly responsible. Nevertheless he admthe average incidence of cure in septic condso per cent. Voronce v hile patients with may recover without transfusion the heeffect of transfus on in sepsa may be etydebittely by the transformation of a severcondition into a subacute condition follow gradual recovery.

Especially the findings of Sematz permit of clusion that in chronic septicopy arms bloody sion may be advantageous. Natto reported a had successful results in 56 per cent of his The necessity for venesction before transfuchronic sepsis must be emphasized. Rudel with the contrainment of the contrainment of

jeopardized recipient Bre tier mentice epoch making discovery of Hesse and that hemoly us shock is due to pasm of the attense of central ongin and may be relaimmediate transfusion of compatible blogstates also that Hesse was able to combring he experiments in a clini-al case and that Chn<sub>3</sub>has had a similar result

In conclusion Breitner makes the for

- Thlood transfusion should be employed; anamias and in chronic anamias due to pyloss of blood (in these conditions it is superiorizing the blood series blood the composition of the blood severe burns; dioxide possoning cholarmic bleeding and ilegrative colitis.
- 2 A good re ult may be expected in Per anamia hamopt) as hamolytic shock i hemophila morbus maculosus werlhofti po attre shock secondary anamia in nurslings ( sepsis (general bacterial infection) and prep; for and treatment after major surficial opetor and treatment after major surficial ope-

for and treatment after major surgical oper 3 A trial of transfusion is justified in agi cytosis acute leukemia and other blood di

and numerous skin diseases
4 Blood transfu ion has proved uselleukæmia nithout anæmia and in scurvy;
tuberculoss and decompensated organic
dhe se Fæc.

## SURGICAL TECHNIQUE

## ANTISEPTIC SURGERY TREATMENT OF

Constantini and I laras Deep Plantar I hiegmons
(Des phi gm plant s profond) J de ch

The prognosis of deep plantar phlegmon is poor as amputation is frequently necessary to save life and death often results from septicemia

The condition is usually due to piercing of the planta aponeurous by a foreign body such as a net ile splinter or nail which carries infection to the cellular tissue of the subaponeurotic plantar space by way of a tendon or synovial membrane and thence to the osteo-articular surfaces. The willed in 1 us seeks to excape but is blocked below by the median aponeurous in front by the digitoplantar fold and also above. It therefore usually serted in a posterior direction into the calcanso tilo itaristic canal and the space between the muscles the flear ten lun and their sponyal sheaths or by way of the cellular tissue surrounding the vasculonerous build in the carrier of the control of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the vasculonerous build in the carrier of the cellular tissue surrounding the carrier of the cellular tissue surrounding the carrier of the cellular tissue surrounding the cellular tissue surrounding the carrier of the ce

Thiotarsal arthritis is sery common in deep plan for aboves. When the synovial sheaths become in volved the infection spreads easily as these sheaths are in direct contact with the perastragalar articula tions. In flexion of the tendons the contact becomes still closer. The vascul mervous bun fles also aid extery on of the pix.

The symptoms are not well known Farly diag nous is of importance for when the infection has penetrated deeply serious complications are to be feared The first s gn is usually a more or less d screte inflammat ty redema of the dorsal region Deep plantar pressure is necessary to elicit the characteristic pain. Movement of the toes and tilio tareal movements are painless. The history is of importance. Your is of the sole are mire dangerous than those of the toes or heel. After the formation of an al see the symptoms are characteristic. The sevents of the general symptoms is striking face is vellow as in severe general infections the pulse small and the temperature high. Pain inter-feres with walking and the limb is kept in internal The sole and retromalleolar region are red and are painful on deep pressure. From these parts the int ammati n extends to the inner surface of the call which is relematous and painful. The external surface of the calf is frequently almost The pontaneous pain is very severe Orieration should be performed without delay ometimes the \ ray i of aid in demonstrating the signs of decalcit cation of the astragalus or metatarsal osteitis

The freatment indicated as immediate wide incision and vaccine therapy. Small incisions merely waste time. When the tendons are involved Lecences rules for incision of the hand should be followed. Wide exposure is imperative. A fourinquet should be applied to clear the operative field. General anxisthesia is best

In cases of marginal abscess with pus in the

wide incision is usually sufficient

In cases of deep plantar abscess without involvement of the tibiocalcance astragalar canal the sole of the foot should be incised from one end to the other in the direction of the greatest pain. The incision should extend to the tibiocalcancal canal but should be stopped there if there is no further extension of pass. When dorsal exdema is present it is abound may be been offered by the purpose of the property of the property

In cases of diffuse plantar phlegmon involving the thoscaleano-astragalar canal and the leg the point of attack should be in the retromalleolar region \(^1\) curved incision should be made around the malleolus in front of the vessels. After exposure of the tendons by sectioning first the superficial leaf and then the deeper leaf of the annular ligament the tendon sheaths should be opened and any puss that has collected should be evacuated. The first love distriction of the should be refused to the first toward their follow the path of the infection first loved and the path of the infection first loved and the path of the architecture of the should be retrieved the sole it is well to explore with a curved retrieved.

When the pus has extended along the flexor tendon of the great toe the incision should be extended along this tendon to the digitoplantar fold.

When the suppuration has centered in the sole the incision should be made parallel with the third interosseous space

The incision should be deep but should be stop pell as soon as the pus is reached

If the infection has pread to the leg the incision should be made along the internal surface of the tibia the tibia inections of the soleus muscle de tached and the deep vasculonersous bundles of the leg exposed. Such an incision must be about 30 cm long.

If there is a large quantity of pus and it has pread in front of the tendon of \chilles an external counter incis on shoul i be made behind the f bula

When there is synovitis of a toe or infection of a crushed toe the incroon should be begun at the site of the lesson and continued in the direction of the calcanean canal to healthy tissue. If the infect on has spread to the leg the incision should be contined to the call.

Osteo articular complications are common, When User articular computations are common when such complications are present t is advisable first such complications are present t is advisable first to open the tibiotarsal joint and remove astragalus to open the custostast joint and remove astrogatis for drainage II ostellis has begin amputation is necessar. necessar) in fact amputs ton 15 ad 18able even in the presence of only tibiotarsal arthritis if the

meral symptoms are severe. The dress in the presence of only those ing should be changed daily and if there is a ings should be changed daily and it inere is a tendency loward equinism a small elastic corrective

abbatatus shoniq be abblied

Bakay L and Ki mko D The importance of Tretanus infect on in Hungary (U be de Bedeu, Tetanus intect on in Hungary (U be de Bedeu t ng der Tet musini ku n n Ungarn)

Unofficial reports of tetanus cases in Hungary Unumers reports of year but not all of the data were clear enough to be of much au of the data were clear enough to be of much value. In the period from January 1, 1928 to May same in the henor from January 1 1820 to the 1934 4 103 Lasts of tetanus were reported to or government authorities. See en hundred and forth to one to lose of males. No hundred and eight to one to lose of males. two were those of males one hundred and eight, cases—603 of which terminated fatally and egui wasa-way ni wanu (crounasco jatany and 383 of which were cured—were available for further in estigation. During the second half of the year on escipation trumps the second har of the year

1931 and accusa municipal 1937 374 adminional cases were reported but the 2 series of cases were orcea up separately In the first series the lowest morbidity was shown in the capital Budapest with only 2 cases in a norked up separately ny ine capital mucapest with only 2 cases in a population of 928 983. In this connection it was population of 928 988 In this connection it was found that according to investigations made by found that according to investigations made uv Budapest 71 per cent of samples of dirt from gar

hunapest It per cent of samples of dirt dens and fields and 70 per cent of samples of dirt The difference in the nature of the so l explains from footnear conta ned tetanus spores the axiation in the incidence of the intection in the variation in the mixing of cases the site of cutrance of the spores was a very small wound or chitance or the spores was a very small wound which at the beginning of the infection was barely

which at the peginning of the antection was barely risible or had already healed. Of the first series of cases fetuna heoratoram occurred in 46 cans on cases (classus neonatorius occurred in 40 caus ing 17 deaths on the first series tetanus presperal s tof 17 yearns on the most series retained preferred to occurred in 3, with 2 deaths, and of the second occurred in 3 print 2 usering send of the second numbers of series in 4 with 4 deaths. The lowest numbers of series an 4 while 4 negatis 1 ne rowest authores of infectious (29 and 25) occurred during the months intections (29 and 75) occurred during the mombes of December and January and the highest numbers (184 and 215) during June and July. The infections occurred most trednently during the first and second of December and January and July occurred most frequenty auring the inst sno second decades of life-249 and 97 cases and 73 and 83 decades of life-249. The mortality was highest in cases respect up. cases respect et) and mortality was inguest to the cases of persons over sevents years and under the cases of persons over sevents years and short use cases of pressure over sevents years and under one year of age and lowest in the second and third one rear or age and lowest in the second and third decades of life. The infection was most common occaues of the Life infection 0.45 most common in persons who worked in the fields and the members. of their families of miniscious strong the foot, the fetanus had its origin in an injury of the foot and nest most frequently in an injury of the head

The mortality was higher the closer the injury to the pinal cord but injuries of the cord were

The period of incubation was I neest after injury to the most remote peripheral parts of the bodi to the most remute perimeral parts of the bodi and the prognosis most unfavorable in cases with very rare and the highlight and time. In the first senes of cases a snort incuration time in the first series of cases there nere 176 with an incubation time of fire days there were 170 with an incubation time of in each in the or less and a mortable of 86 g per cent. In the or tess and a mortanty of 80 g per cent. In the second series there were 0 such tases with a more second series there were 1 in the first series the discovery demand of 12 g per cent.

tainty of 72 o per rent an the mist series the observed after twenty days in 45 cases and ease developed after twenty days in as cases and in the second series in 42 cases. The mortality in these cases was 31 r and 428 per cent inese cases was 31 t and 42 s per cent In cases not treated with serum the mortality

in cases not treated with serum the mortal y was denutely higher the 33 such cases in the first series all were falst and of 25 in the second series series au were tatal and of 25 in the second series 18 were fatal. The best results were obtained in compined supentaneous intralumbat and intra shons tulections of section. In addition to the necontinued anneutrations of the necontinued and the necontinued anneutration of the necontinu enous injections of serum in addition to the use of serum simultaneous treatment with magnesium or serum simuraneous treatment a to magnessum sulphate morphine and chloral hydrate is ad is

suppose murponne and course is all is all is able. In the first series of cases re leaved the mor aunc an the arst series of cases re seried the mor tamy in cases receiving this audit onat treatment Of 372 cases in which the dose of serum used cent of 372 cases in much one over or serious were was recorded it was insufficient in 50 per cent was recorded it was insufficient in 50 per cent was recorded in the serious which the authors bel eve that most of the remedies which the authors bel eve that most of the remedies which affect the nervous system have a toxin mobilizing

auect the nervous system have a cosm monitude of effect in the sense in which that term is used by enece in the sense in walca that term is used by Defour as they break up the union of the torm

The data concerning prophylactic injections of with the brain substance

serum are very incomplete frequently for economic reasons antitionin could not be administered e en when telanus had alread) developed. How e en when telabus had alread) developed the eter in the first series of cases there were 13 in ever to the first senes of cases there when sit in water prophylactic injections were given with 3 deaths (includation), time in f three days and in f ucsus uncuration time in there us, some in the first days and in the second series 4 cases in which b) edus) and in the second series 4 cases in which they were green with 1 death. In rid to pen entire struction of the peasants with regard to measures si ted to local condit ons the important of proper footwear during work in the fields is of hunder footheat until work in the news is stressed. However poor the economic conditions in stressed. the country may be the wearing of shoes or boots in the fields is not a luxur but a necessary proto the news is not a manty out a necessary probeen more generally recognized in the just the in

been more generally recognized in the past use in cidence of telanus would have been 5 per cent lower. The telanus problem in problem to feet the cent a footness and economic Event Visca (2)

Schley W. Parthologica anat mical Findins in March Death (i.b.) The land of part of pa

After reviewing the literature on a ert n deaths

first discussing the cases with injuries of amount organs and then especially those with fatal buct and kidney changes the author reports to o cases of the

The author's first case was that of a forty two vear-old man in good general condition who was operated upon for duodenal ulcer Anæsthesia was induced with 8 32 gm of avertin and 100 gm of The resection was accomplished without ether difficulty. On the second postoperative day urinary suppression began and sixty five hours after the operation death occurred with the signs of renal insufficiency At autopsy the operative field was found intact and free from signs of peritonitis Histological examination disclosed a cloudy swelling of the damaged urmary tubules fatty degeneration of other portions of the tubules fatty infiltration in the large lobules of the liver degeneration in the central portions of the l ver and fine fatty degenera tion of the muscle fibers of the heart

The second cas was that of a fifty five year old man with a rectal carcinoma who received o o8 gm of avertin per kilogram of body weight. The opera tion was performed without difficulty. The next day urmary suppress on began and oon afterward death resulted. At autopsy the peritoneum was found smooth and shiny The liver was very large and was yellow because of fatty changes kidney parenchyma appeared cloudy Fatty degen eration of the liver was shown also by microscopic e amination The change was of the type of large drop fat infiltration. In the kidneys the glomeruli were compact and cellular and presented the picture of an acute glomerulonephritis. In the damaged tubult the epithel um was cloudy and the fatty changes 1 ere slight

These cases demonstrate that avertin has a toxic effect on the liver and kidneys manife ted by degen eration changes and acute glomerulonephritis. Aver tin is recommended as a basal narcotic but should not be used in the cases of patients with organic damage. Bayrecks (G)

Foss II L and Schwalm L J The Relati e Merits of Spinal and Ether Anæsthesia J i : 1/ 1/15 1933 ci 1711

This report is based on 4 000 consecutive opera t ons one half of which were done under ether and one half under spinal anæsthesia

Deaths in the operating room were 10 times more common when ether was used than under spinal anæsthesia

Postoperative deaths within the first few days were likewise more frequent after the use of ether. The ultimate death rate in the hospital and the num ber of deaths from postoperative pulmonary complications did not suggest that postoperative complications of any importance either early or remote were more frequent following either form of anæs thesas

The patients usually preferred spinal anasthesia especially those who had previously experienced both forms. While there is some evidence to suggest that certain spinal cord changes may follow the in jection of procame hydrochloride into the sub-arachnoid space it as still unknown \hetera such changes are common permanent or of any special to be as safe as either and a great deat non-lean venient and helpful. It can be used more or less routinely for operations belo the daphragm and is the anisathesia of choice in most acute addominal emergencies.

GEORGE R McAuliff M D

## PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

Ruggieri E and Zanetti S Experimental Re searches on the Use of Thorotrast by the Intraperitoneal and Intrapleural Routes (Excerche p rimental; sall imp ego del thr trast pe ja intrapent neale ed intrapleurica) 4sm : 1 de ch. 135 x 1 S.

Ruggen and Zanetti carried out a zeries of experi ments on rabbits to check the results obtained by other investigators by the interperiones! and subcitations injection of thoritests and to determine whether injections of this contrast medium into the pleural cavity might be of advantage. It additions they made histological studies to determine the effect of the innections on the major orizant.

As a rule the intrapersioneal injection of thorotrast results in very clear visualization of the abdominal viscera. By means of it also the cavitary lymphatic trunks are rendered visible although they

are le's distinct than the organs

The viscera are rendere I opaque by resorption of the contrast medium by the meseachy mail cells of the reticulo-endothel al system the investing cells of the serons and the lymphatus. The first two of these groups of cells have a phaspocitic action whereas the lymphatus seem to have a double function—direct absorption and transportation of cells infarcted with rezulber.

The authors found that when thorotrast was in pricted into the pleural cavity the pleuroplantonary lymphatics and the glands of the hillum were rea decred visible. The absorption of the thorotrast granules is carried out by historytes and lymphatic elements. As in the pertoneal cavity, the his orytes seem to have a phagocytic function and the hymphatics and aboription and transportation func

With regard to the elimination of thorotrast there is considerable difference of opinion. By many thorium is be lied to be excreted through the hier and small intestine. Having found black granules in the kidneys the authors are of the opinion that these organs may be active in the process.

In their h stologiest studies of the organs following the use of throatrast the authors found that whether the thorotrast was injected by the intrapentional or the intraplent roots is produced notable organic changes. In the animals receiving intrapentional or methods all of the organic summed showed vascular conge ton changes were found in the hepatic cells the kidneys bowed severe lesions of the glomerular tubules zones of strophy were found in the supartensis and the lungs contained dumerous thromboses. In the animals receiving intrapleural injections all of the organic aranimed showed less of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic aranimed showed less than the contract of the organic area or the organic area or the contract of the organic area or the organic area organic area or the organic area or the organic area or the organic area organic area or the organic area organic area or the organ

severe congestion the kidneys presented diliting though less marked flomerular changes the hepatic cells showed the same changes as those noted in the animals given intraperational injections signs of injury were apparent in the impocardial fibers and multiple thromboess were found in the lines.

The intrapersoneal injections were made on three consecutive days with 1 ccm of theoretrast distinction and the constant with a 5 per cent sterile glacose solution. The plearal injections were made with 1 2 and 3 cm of theoritast of different strengths. The optimizer was obtained with 2 ccm and after about ten days. Jurys T Case MD

Bársony T and Koppenstein E The Roentgen olog cally Demonstrable Anatomical Card a (Die r htgen l gash s the re anat miche Kar da) Ads ad I 1933 n 335

The authors regard the new theones concerning the reortgenology of the normal cardia to be us correct. They claim that the reentgen pictures which according to I alugays show the mechanism of the normal cardia represent not the cardia but the intra abdominal portion of the enophages. Reentgenographic demonstration of the normal cardia is surposs jube by our present meens. However the cardia can be demonstrated under certain path the cardia and the demonstrated under certain path each printing (in certain plantage of the cardia and (j) certain postoperative changes in the stomass.

Martin H E Radiation Th rapy in Skin Cancer 4m J Cancer 933 15 60

Fewer technical difficulties are encountered in the treatment of slun cancers than in the treatment of neoplasms elsewhere. However the size of the les on the amount of infiltration the urregularities of contour and the promitty of radioerestive or vital structures may increase the difficulties and influence the choice of method.

While a lethal dose must be given to the depth of the lesson it is important to avoid anjuring the structures ju 1 beneath to a degree beyond possible repair. This necessitates an accountse knowled e of the depth of infiltration the physical purcepts of ditance filtration and voltage and the manner and extent to which these factors indicate the intentity

of the irradiation

Martin recommends an unital massive dose de hered at one sitting. If this does must be repeated or supplemented the original freatment was a partial fabure. At the Memorial Ho pital 'em' fort the most commonly used applications in the treat ment of skin lessons are radon plaques an unfiltered radon bulle gold seeds. Tays surface contact ap-

phrators and the radon tray. The use of the \ rays 1 imited to the basal cell carranoma with a large surface area (from 6 to 20 cm). From 4 to 6 erythe ma doves (2 500 to 3 500 r units) are administered at a target skin distance of 20 cm, with a voltage of 120 peak by, and an aluminum filter of 1 mm.

The radon playues are shallow bot shaped con tamers made of bras 1 mm that. Into these con tamers radon in platinum tubes is placed. This guesa atotal filter equivalent to 3 mm of brass. The playues are used on lessons varying from 0 5 to 3 cm in diameter. Electred lessons should first be destructed on the similar beautiful to the determent of the miles of the state of the continues of 1 cm.

The use of gold seed 1 indicated especially for (1) small lessons on a surface with an irregular con tour (2) small fesions near sensitive structures such as leasons on the palpetral margins of the cyclid (3) deeply inditrating sold extremoma recurring after surgical removal and (4) deeply infiftrating car curoum of the lip. In the last condition the seed aroused to supplement the surface contact tradia aroused to supplement the surface contact tradia.

The glass bulb is adapted only to institutions like the Vlemonal Hospital New York. In the latter in stout on it is made up about once every three weeks. The bulb equipped with a long handle is made up with radon to the strength of from got to goo me considerable that the strength of the properties of the control of the strength of from got good to the strength of the strength of

two minutes from forty to fity cases may be treated with one bulb Charles II HEACOCK M.D.

#### MISCELLANEOUS

Scharnagel I M The Treatment of Malignant Melanomata of the Skin and Vulsa at the Radiumhemmet Stockholm 1d r d l 1933 El 473

Following a brief review of the hterature on methods and results of treatment of malignan melanomata of the skin the author reports upon the seventy cases treated at Radiumhenment in the period between January 1, 1921 and July 1, 1930 In all except six of the cases which were fatal the diagnosis of malignant melanoma was made by histological examination. Three of the patients had distant metastases and thirty three had metastases in the regional lymph nodes at the time of their admission to the hospital.

In forty five cases the treatment was electro endothermy combined with irradiation in four cases electro-endothermy alone and in twenty-one irradiation alone. In the cases treated by irradia ton alone the condition was inoperable or advanced

The incidence of three year cure in the seventy, cases was as per cent. In forty nine cases the in cidence of two year cure was 387 per cent and in seventien cases the incidence of ten year cure was 387 per cent.

The author concludes that the treatment of choice is the combined method and that operable metas tases should be treated by dissection and irradiation

# PHYSICOCHEMICAL METHODS IN SURGERY

## ROENTGENOLOGY

Ruggieri E and Zanetti S Experimental R searches on the Use of Thorotrast by the In traperitoneal and Intrapleural Routes (Ri traperitoneal and intrapressal to tra t p a intrapenton le ed ntrapleurica)

Ruggieri and Zanetti carried out a series of experi ments on rabbits to check the results obtained by other investigators by the intraperitoneal and subother investigators by the intraperitorical and subwhether injections of this contrast medium into the pleural cavity might be of advantage. In addition they made histological studies to determine the effect of the injections on the major organs

As a rule the intraperitoneal injection of thorotrast results in very clear visualization of the ab dominal viscera By means of it also the cavitary lymphatic trunks are rendered visible although they

are less distinct than the organs

re iess distinct than the organs
The viscera are rendered opaque by resorption of the contrast medium by the mesenchymal cells of the reticulo endothelial system the investing cells these groups of cell have a phagocytic action of the serosa and the lymphatics whereas the lymphatics seem to have a double function—direct absorption and tran portation of

The authors found that when thorotrast was in cells infarcted with granules lected into the pleural can'ty the pleuropulmonary lymphatics and the glands of the hilum were ren The absorption of the thorotrast granules is carried out by histiocytes and lymphatic elements As in the pertoneal cavity the histio dered visible cytes seem to have a phagocytic function and the lymphatics an absorption and transportat on func

With regard to the climinat on of thorotrast there is considerable difference of opinion By many tion thorium is belief ed to be excreted through the liver and small intestine Having found black granules in the lidneys the authors are of the opinion that these organs may be active in the process

In their histological studies of the organs following the use of thorotrast the authors found that whether the thorotrast was injected by the intraperitoneal or the intrapleural route it produced notable organic changes In the animals receiving intrapentoneal injections all of the organs examined showed ascu lar congestion changes were found in the hepatic cells the kidneys showed severe lesions of the glomerular tubules zones of atrophy were found in the suprarenals and the lungs contained numerous thromboses. In the animals receiving intrapleural injections all of the organs examined showed less

severe congestion the Lidneys presented distinct though less marked glomerular changes, the hepatic cells showed the same changes as those noted in the animals given intraperitoneal injections signs of injury were apparent in the myocardial fibers and multiple thromboses were found in the lungs

The intraperitoneal injections were made on three consecuti e days with 1 c cm of thorotrast diluted one half with a 5 per cent sterile glucose solution The pleural injections were made with 1 2 and 3 ccm of thorotrast of different strengths The optimum visibility was obtained with 2 c.cm. and after about ten days

Barsony T and Koppenstein E The Roentgen ologically Demonstrable Anatomical Card a (De ro nt enol gisch s chb re anat mische K di ) 1cl ad | 933 mv 335

The authors regard the new theories concerning the roentgenology of the normal cardia to be in correct They Claim that the roentgen pictures which according to Palugyav show the mechanism of the normal card a represent not the cardia but the intra abdominal portion of the esophagus Roentgenographic demonstrat on of the normal cardia is impo sible by our present means Howe er the cardia can be demonstrated under certain path ological cond tions viz (1) hernix of the æsophag eal opening (2) certa n functional constrict ons of the cardia and (3) certain postoperati e changes in the stomach

Martin H E Radiation Therapy in Shin Cancer Am J Ca cer 933 11 6 5

Fewer technical difficulties are encountered in the treatment of skin cancers than in the treatment of neoplasms elsewhere However the size of the le son the amount of infiltration the irregulanties of contour and the proximity f radiosensitie or vital structures may increase the difficult es and influence

While a lethal dose must be given to the depth of the choice of method the lesion it is important to avoid injuring the structures just beneath to a degree beyond possible repair This necessitates an accurate Lnowledge of the depth of infiltration the physical principles of d stance filtration and voltage and the manner and extent to which these factors influence the intensity Martin recommend an initial massi e do e de of the irradiation

l ered at one s tung If this dose must be repeated or supplemented the original treatment was a par or suppremeased the original readment was a partial failure. At the Memorial Ho pital New York the most commonly used applications in the treat ment of skin lesions are radon plaques an unfiltered radon bulb gold seeds \rays surface contact applicators and the radon tray. The use of the \rays is limited to the basal cell carcinoma with a large surface area (from 6 to 20 cm.) From 4 to 6 erythe ma doses (2 500 to 3 500 r units) are administered at a target skin distance of 20 cm. with a voltage of 140 peak by, and an alumnaum filter of 1 cm.

tag peak ky and an auminum inter or it man. The radion plaques are shallow box shaped con tainers made of brass 1 mm thick. Into these con tainers radio in platinum tubes is placed. This gives a total filter equivalent to 3 mm of brass. The blances are used on lessons varying for mo 5 to 3 cm.

plaques are used on lessons varying from o 5 to 3 cm in diameter. Elevated lessons should first be destroyed to the skin level by endothermy and then treated with from 1 000 to 1 500 mc hrs at a distance of 1 cm.

The use of gold seeds is indicated especially loof (i) small lessons on a surface with an irregular con four (i) small lessons near sensitive structures such as lessons on the palpetral magnas of the evolid (3) deeply infiltrating solid carcinoma recurring after surgical removal and (4) deeply infiltrating actions of the lip. In the last condition the seed are used to supplement the surface contact irradia are used to supplement the surface contact irradia.

The glass bulb is a lapted only to institutions like the Memoral Hopital New York. In the latter in stitution it is made up about once every three weeks. The bulb equipped with a long handle 1 made up with radon to the strength of from 100 to 500 mt. Ply 18 uses small early based feel cancers and pre-ply 18 uses small early based feel cancers and pre-ply 18 uses for the strength of the plant with the strength of the strength o

two minutes from forty to fifty case may be treated with one bulb. Churles II Heycock M.D.

## MISCELLANEOUS

Scharnagel I M. The Treatment of Malignant Melanomata of the Skin and Vulra at the Radiumhemmet Stockholm. 1ct; rad. 1. 1933 21. 473

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In forty five cases the treatment was electro endothermy combined with irradiation in four cases electro endothermy alone and in twenty-one irradiation alone. In the cases treated by irradiation alone the con litton was inopreally or advanced

The incidence of three year cure in the seventy cases was 457 per cent. In forty nine cases the in cidence of five year cure was 35 per cent and in seventeen cases the incidence of ten year cure was 35 per cent.

The author concludes that the treatment of choice is the combined method and that operable metas tases should be treat d by dissection and tradiation

## MISCELLANEOUS

## CLINICAL ENTITIES -GENERAL PHYSIO LOGICAL CONDITIONS

kiene L. The Quest on of Emir ronal Injury a the Cause of Congenital Deform the and D seases (I in Frage der Fruchtsch edigun als Ur h angeboren r D fo m taet n und Krank hete!) ich h f h p Ch 1933 l v o

Injuries from insufficiency of the ammotic fluid are rarely demonst able in the first emboral period. The insufficiency is based on pathological processes which run the recurse in the own flow and fetal membranes. Leve has observed mall formations arel twin preparately in the same finding their bines. He raises the question whether hadram no and milliomation are not similar and the raises the ammotive crowling and price sure of Murl. Jensen are designated as factors be leved to be responsible for all congenizal mallorate to planations are summarized at the end of the first part of the party of the planations are summarized at the end of the first part of the artist of the party of the process of the planations are summarized at the end of the first part of the artist.

Amo g the strictly Traumatic cau e of injury of the embryo. A sew mentions attempted abortion Mall simultons due to ruptures of the placenta or loo ening of the fetal membranes ha e been recog nized. Niev e attributes maternal impres ons to creditator contractions of the uterus or the hor monal chemical changes in the blood suggester but during the terral contractions of the uterus or the hor monal chemical changes in the blood suggester but during the terral copectic termination per of in which there were respectived disturbances of the central nervous system hypoplass not for femur and conential dilectation of the hip. He cites also a cas of spatch hemplegia and catract following in

phnism the mother
Syphisis not regard das of great importance in
congenital deform ties. Whether we are dealing
sith a general degenerate in jury jot the embrs or
a specific disease remains undecided. The occurrence
of vars and radium injunes of the embrs of central
nervous and issual systems. Vary children
and the control of the cont

He next d scusses embreonal nur due to factors of a non mechanical nature. He state that ectopi pregnane permits path logical o a to levelop. The outdendard scale as are the result of affections of the uterus. They cause fault under the plantation disturbances of nut toon and chem call or ownort influences. Like the telformittes of the embreo insufficiency of aim out fluid and anoma lies of the arm on are to be reg rided as the re utils of such conditions. Recently, the importance of

oxygenation has been emphasized Zangeme site refuses to regard endonetritic changes as a factor nembry onal injury. With regard to this problem as well as with regard to eiths problem as well as with regard to eiths problem as well as with regard to either onlying an all or nothing point of vi is not permissible. There are sufficient grounds for the assumption that below both. I althological influences may be manifested to the composition of the

In the third part of the article the author reports clinical obser ations made by himself and others He considers them very inadequate as regar is fetal distu bances caused by disease of the uterus At any rate he considers the important influences on the embryo to be proved. The chief factors a e abortions curettage unfa orable placental inser tion di integrated uterine mucosa the preclimac terium late births following a long period of ster slits metabol disturbances of the placenta due to m oma various congen tal affections in the famil and an abnormal course of pregnancy or labor in the same person or in relatives. Among social in fluences kiewe includes only conditions which le d directly to abortion or embryonal injury. He regards attempts at abort on as a factor in the development of malformations (extrair mbranous p egn ney the diffusion of medicaments early undernourishment of the embryo) 1 too short con alescent period during the puerpenum appears to him to be responsible for the rel tively high in cidence of malformations in the children of laboring and rural por ulations Gonortheea as the primary affection must not be overlooked. The importance of the internal ecretion of the endocrine glands is little understood. To expla a chondrodyst ophy Kiewe assumes that the genes for the cartilage format on were pathological. In conclus on he sug gests that the aging ovary mas yield primarily H LA THATTER (Z) changed germ cells

Ko mos A The Haemostatic Effect of Intra nously Impect of Risperconic Sod um Chloride Solution D bla Hende Wisking d mira e es j te h pert n seh n Kochsal loesa i O h | 1 | 933 p o

The experiment previously carried out with regard to the hemostate effect of intra enough inject of his processor of the proc

cium sedimentation time of the erythrocytes num ber of white blood cells and number of thrombocytes

The mesupations were carried out on patients who were not bleeding and belonged to the group of neurasthenics by ternal persons and persons with pious of the stomach. From one to two days pre wows to the experiment as well as during the time of the investigations no drugs were given and during the first three hours of the investigation no food or drink was allowed. The relationship of the change in value of the individual factors of coagulation was also determined.

The rules emonstrated definitely a harmovature of the condition of the serior (b) definition of the condition of t

Newell R L Coccygeal Sinus B 1 J 5 g 933

Farmer Cit Italés (Z)

Follows g a d cussion of the various theories regarding coccygeal sinus and a review of the avimptoms histology etiology and treatment the author bridly reports eleven cases all those of women and dra's the following conclusions

I Coccygeal sinus must be regarded as due to a defect in embryonic development. It is probably the result of traction on the skin caused by retro gression of the tail bud

2 The treatment indicated is removal of the entire sinus together—th that portion of the median raphe—hich contains the origin of the condition

The extent of the sinus may be difficult to recognize without \ ray examinat on preceded by the injection of l p odol

The dissection i rendered easier by an injection of paraffin wax immediately prior to the operation C R STRIKE M D

Furth J Seibold II R and Rathbon R R
Expe imental Studies on Lymphomatos s of
Mice 1m J C 1933 7

Yudes were made ith fe strains of Imphomatous which developed spontaneously in three different stocks of mice. The estra is sere transmitted to cutti, up in Locke solution portions of Hono node spl en or Imphomato tum rand making an ect on directly into the gr is not axial for subutaneous noculain no el litering and injecting not the tail vien f intra enous transmission.

The neilence of successful transmission r nged f m to to 8 pc cent depend bg on the strain we do whethe a subcutaneous o intra enous 1 jection was done and whether or not the host was tradiated

The strains all produced different varieties of lumphomatosis and preserved these differences through many successive animal passages Strain A 15 produced a pronounced blood stream invasionfrom 400 000 to 600 000 lymphatic leukæmia cell counts with no tendency to infiltrate or form tumors in the body organs Strains S 27 and Ak 30 showed much less ability to invade the blood stream but frequently produced a moderate increase in the cir culating lymphocy tes in addition to local tumors and infiltrations Another strain produced local gland infiltrations with tumor formation but very little blood stream invasion. The fifth strain produced systemic infiltrations-sometimes pleural or perito neal effusions ; ith scant involvement of the blood The strains infiltrated particular organs that is produced tumors of the kidneys or ovaries infiltra tion of mu cles or of the spinal cord or hamorrhagic tumors which characterized one or two strains and not the others

Two strains could be transmitted to all stocks of mice whereas three could be transmitted only to

mice which were closely related

On the basis of these observations the authors suggest a simplification of the terms applied to these diseases. As the localization in lymph glands blood stream and other organs is not specific but depend on the character of the invading eld and free entrance into the Circ lation many different tumors represent different maintestations of the same process. The authors suggest the following use of the following terms.

I ymphoma for an tumor composed of lym phocytes The terms I umphocytoma I umpho sarcoma and leucosarcoma should be dropped L umphomatosis for the systemic disease no termed I umphatic leukamia leukamia leukamia limit in oh

termed lymphatic leukæmia adencsi and pseudoleukæmia

Leukæmic subleukæmic and aleukæmic to represent respectively greatly increased moder ately increased or scanty blood involvement dif ferent signs of the same disease lymphomatosis

The smaller the inoculating dose the fewer the transmissions. The low point is about 1 000 lympho cytes injected intravenously. This number is neces sary to reproduce the disease.

If plasma separated from the cell is injected no takes follow betther are there any takes when the cells are ground up a fact indicating the absence of an intracellular virus

The transmissible maternal is killed by drying the add unof glycetin incubation and adequate freezing and thawing. These procedures fail to affect most viruses. The authors believe that the disease is transmitted directly by the injection of maternal contin uning only abile lymphocites and is truly a neoplastic proce. They therefore propose to drop the term lymphoblast and leignate as leuke mic. I mphocites the cells which as invasive limit downers from metastases. These cells have hintited powers of maturation and when they multiply their characteristics persist.

These attributes separate the disease from leucoc) tosis agranuloc) tosis granulocy topænia per cytosis agranulocytosis granulocytopænia per nicious anæmia and aplastic anæmia. The authors believe that the term acute lymphatic leukæmia which has been used by some to connote an infectious which has been used by some to compore an intections process should not be employed since according to duration of illness is not a trust worth) index of differentiation of leukæmia their findings

It is well known that irradiation injures the blood forming organs. It affects first the lymphatic sys tem causing degeneration of the follicles in the spleen and lymph nodes and a decrease in the num spicen and tymph nodes and a decrease in the number of hymphocytes and tradiation also increases her of tymphocytes and transmissible lym phomatosis If mice are irradiated soon after or before moculation otherwise resistant strains may develop lymphomatosis. The authors belie e that these two observations have little in common and that the influence of the \ rays on susceptible and mals does not have any relat on to the therapeutic use of 1 ray irradiation in leukæmia as the animals with leukæmia are resistant to lymphomato s

The multiplication of leukæmic cells cannot be prevented by sublethal do es of \ ray irradiation Irradiation with a sufficient number of units to destroy most of the lymphocytes of healthy mice and cause atrophy of the lymphatic tissues did not prevent multiplication of leukæmic cell when it was applied shortly after inoculation. The fact sug gests that normal lymphocytes are at least as sus

ceptible to irradiation as malignant lymphocytes Treatment of inoculated mice by \ ray irradiat on prolongs the duration of the illness by from 2 to 50 per cent but does not prevent a fatal termination H. REV. C. S. T. STEIN, M. D.

## Rad otherapy as a Method of Identifying Certain Varieti s of Tumor J Am Desjardins A U

Heretofore microscopic examination by a com petent pathologist was the only means available whereby neoplasms could be identified accurately This procedure is of great diagnostic aid However the author believes that the average physician has come to rely too blindly and implicitly on the pathologist's report and tends to disregard signifi cant physical clinical and roentgenological data which conflict with the pathologist's interpretation and if analyzed would lead to a more accurate diagnosis than blind reliance on the pathologist's

The difficulties which the pathologist encounters are brought out Being human he is subject to error Commonly too much is expected of him Moreover the tissue gi en him for examination may

not be representative of the entire tumor Desjardins calls attention to the fact that there is now available another method for the identifica tion and da sification of certain varieties of neoplasms viz the reaction of these tumors to the roentgen rays and radium While this method is not nearly so generally useful as the pathological

method within its own range it 1 as dependable as and sometimes more dependable than examination with the microscope Desjardins emphasizes that it is effective and dependable only when it is used

by an experienced radiologist It is based on the fact that each variety of cell in the body has a specific range of sensiti eness to the roentgen rays or radium Because of this fact the rate of regression of a tumor subjected to radio therapy furnishes information as to the pecies of cells of which the tumor is ch effy composed

Lymphoid cells are the most sensitive to irradia tion bone and nerve cells the least sensitive and epithelial cells about intermediate between these

In tumors derived from radiosens tive cells such as Hodglin's di ease lymphatic or myelogenous leukam a lymphosarcoma embryonal carcinoma (often miscalled sarcoma) and mixed or teratoid tumor of the testis and diffuse endothel oma (endothelal myeloma) and chondrosarcoma of bone radiotherapy can almost always be depended upon to furnish absolute diagnostic indications irrespec tive of clinical or pathological observations By radiotherapy alone the radiologist can d stinguish lymphoblastoma from tuberculous adentits embry onal carcinoma or a mixed (teratoid) tumor from tuberculosis of the testis and diffu e endothelioma of bone from chondrosarcoma or o teogenic tumor In other varieties of tumor rad otherapy may

furnish information which correlated with chin cal physical and roentgenolog cal data will determine the d agnosis without a biops) or an abdominal

The author cites five cases to show the diagnostic value of radiotherapy. In the first case it proved the condition to be a lymphoblastoma although at laparotomy operation both the surgeon and pathologist believed it to be a carcinoma. In the second it established the diagnosis of abdominal lymphoblastoms after the patient had been unnecessarily subjected to an exploratory laparotomy In the th rd case it est be lished a similar diagnos s without operation in the presence of abdominal masses and chylous fluid in both pleural ca attes. In the fourth case, it differ entiated med astinal tuberculous adentus from other mediastinal processes and in the fifth case it d ffer ent ated chondrosarcoma from diffuse endothelion of bone

## Immature Local z d and Deunow i immature Local z a sub tructi Rhabdomyoblastoma (U be unrei tructi knapdomyoblastoma 10 be preti begrenzt nd destruie d wachse d Rhabd mo-bl t me) F kf 1Zi k f P ik 933 1 338. Gla unow M

This article is of interest to gynecologists because the rhabdom oma ma de elop n the uterus (mae of th rteen women with such a tumor were between that and sixt fie years of age) in the urnary bladder nd in the arma (in children up to the tenth ear) Some of the tumors of this type b long to the my bla t myomata of Abrikossoff which are to be regarded as ben gn Howe er there are malig

nant rhabdomy omats with round cells polymorphic cells spindle cells and myxomatous and fibromatous varieties. The polymorphic variety was described by

Montpellier as typical

The malignant character of the rhabdomy oblas toma is apparent in the protoplasm especially in areas with a well-developed intercellular fibrillar substance Heidenhain's hæmatoxylen stain shows black chains transversely striated fibrils and nuclei with a granular reticulated structure. The spindleshaped cells are frequently extremely long protoplasm 1 reticular and in stripes or cylinders and transversely striated. At times it is so extremely vacuolated that the fibers appear to be hollow In addition there are giant cells with single and multi ple nuclei During mitotic division the surfaces of if e equatorial plates are vertical to the long axis of the cells At times the fibrils are argentophile. The most important finding is the occurrence of myo fibrilla in various stages of differentiation

is described by the author in detail two were myo biastomy omats (Abrilossoff). One was typical and the other atypical and immature. The typical tumor occurred on the tongue and the atypical tumor originated as a polyp of the vocal cord. The remain ang four tumors were examples of more or less immature maignant rhaddoblastomata. Three developed on the lower extremutes and one on the tongue.

Of the six tumors the histological structure of which

Recause of their variable character these tumors formerly escaped recognition. Some are dysonto genetic (Abrikossoff's cases) and some arise as regenerations of the trans ersely strated muscular ture usually on the surface of the muscles following trauma. The tumors in the region of the urogenital system are dysontogenetic. R MERE (C)

#### Rowland R S Schueller Christian Disease Am J Roe ig I 933 649

Sixty cases of Schueller Christian disease or Chris tian's syndrome of defects of membranous bones exophthalmos an i diabetes insipidus a special form of xanthomatosis have been recorded. The disease is a rare probably familial constitutional disorder of metaboli m in which a deposition of lipid mix tures particularly cholesterol and its ester leads to characteristic by perplastic changes in the reticulo endothelial or the histiocy tie apparatus Our knowl edge of the metabolism and chemistry of the con-dition is incomplete. The suggestion has been made that the d sturbance of equilibrium is in some way related to a disturbance of liver function. Pathologic cal examination reveals first ma ses of foam cell or histiocytes loaded with fat in the tissues sur rounding the small blood vessel and later lipoidal granuloma like accumulations of a peculiar type which produce p essure atrophy or other pressure effect on the contiguous tissues

As a rule three cardinal symptoms—bone defects exophthalmos and disbetes insipidus—are present but no one of these is essential and there are others which sometimes seem to be of equal importance

The most frequently observed form of the condition occurs in early childhood Follov ing one of the common childhood diseases convalescence is pro longed and characterized by increased irritability excessive thirst exophthalmos soreness of the mouth with loosening of the teeth and vague pains referred to various parts of the body. On \ ray examination bone defects are found chiefly in the membranous and flat bones The exophthalmo is the result of the accumulation of lipid granuloma in the orbits. The disease is progressive. Growth Respiratory is arrested and emaciation occurs symptoms develop the child becomes cyanotic and dyspocic or very pale and anamic death results after from two to four years from respiratory and card ac complications or severe anæmia

In the occasional adolescent forms of the disease the bone defects evophthalmor and disbetes are progressive but at times show remissions. Growth is arrested and the child becomes suddenly fat. The obesity has the characteristics of a distrophia adiposogenitalis with signs of mental retardation. The di ease may not prove fatal until the second or third di ease may not prove fatal until the second or third

decade of life

In the rare adult form of the disease there may be a polyglandular syndrome characterized particularly be involvement of the hypophisis tuber enerum and base of the brain. The fact that invasion of the lipioidal granulation tissue has been found in all of the glands of internal secretion suggests that the endocrine disturbances are the result of the lipioidass In one case the hypophysical cachetua of Simmonds was observed and in others accomegaly with lipermia and hyl cosums.

In corel s on the author states that the symptoms endocrinological features and roentgenological indings seem to be the outcome of the general pathological changes produced by the excessive deposits of one or more of the lipid constituents in the tissues

J EDWIN KIRAPATRICK M D

## Ga k G E Strategy In the Fight Against Cancer P c R y Soc Wed Lo d 933 x 69

After operations for carcinoma of the breast at St Bartholomen's Hospital London the gross incidence of five year survival was 36 per cent and the net incidence ao per cent. The estimation of the gross incidence is based on the assumption that all

patients who have died or disappeared are dead from harrents who have men at alsaphester are also non cancer the percentage is inerciore sugnery too unfavorable. On the other hand allowance must be tavorable Un the other hand allowance must be made for deaths from accidents or intercurrent No attempt was made to separate the cises without enlargement of the glands or metastases from those in which includes were present. The

not inchese in which declases were present inches the present and the pear survival was determined net minutener of it is year survival was determined by maling an allowance of a per cent have maling a cases of carcinoms of the breast which were la cases of carcinoms of the breast which were

treated with radium the gross five year survival was treated with radium the gross ave year survival 35 per

Of the batteuts oberated indon for carcinoma of the tongue 25 per cent and of those operated upon for tongue 25 per cent and or those operation upon incarcinoma of the uterus 40 per cent were still alive

tine end of uve years To aid the organized light against cancer the au at the end of five years

1 V comblete survey of the results of the treat nent of cancer made and maintained by follow up thor suggests

2 Cooperation between the various bodes in departments in all hospitals

steried in this agai.

3 A concerted effort on a large scale to investi gate and report on various methods of treatment terested in this fight A. The ded cation of one or more institutions to The Present

## Graw A B and Hartman F W The Present Status of the Biopsy J Am M ( 1 933 ci McGraw A B and Hartman F W. such in estigat on

The authors state that microscopic morphology the authors state that interesting horizonesis sun remains the use enterior of the manuscress of tumors dassification, activity and propriots a fit tumors classification activity and prognos a of tumors.
The value of biopsy has been recognized since its time of virchow. The theory that linearly and many committees the committee of the committee o time of vircuow the theory that incision into a mal guant tumor stimulates, its growth and may disseminate finnot cells has been q shrored by ex unscrimate tunior cens has need a synthese of clinical periments on animals and careful studies of clinical

Riops) should be used not as a subst tute for anotor should be used not as a substitute for other dinical diagnostic methods but as a supplie ourer cunicas diagnostic metuods but as a supple ment to them. In certain conditions such as syphil s ment to them in certain conditions such as syphil a ment to them Found's across of bone funners. Found's across of the second disease and bymphosacroms a therapeutic test disease and bymphosacroms as the second disease and bymphosacroms as the second disease and bymphosacroms as the second disease and the second disease are second disease and the second disease and the second disease and the second disease are second disease and the second disease and the second disease are second disease and the second disease and the second disease are second disease and the second disease and the second disease are second disease are second disease and the second disease are s cases for it there is a prompt response to such a test

The development of new instruments has greatly ine neveropment of the mistruments has greatly biopsy will be unnecessary facultated the technique of obtaining uiopsy speci-mens. This is true particularly in the largering resophagus unnary bladder and bookers, of the resophagus unnary bladder and bookers, of the unusity made the interpretation of the same une a man mare an interpretation of the matter amount material more difficult because of its imited amount. and because often only the surface material is oband records there any the animal materials is to is neu au occuer structures are not represented. The needle puncture method of Marina and Linguistane and the method puncture are not represented to the needle puncture. the necesse purcture method of various and child and the punch groupsy of Houman are easy methods of obtaining tissue from deep growths. The cautest look many also has mend for this extremely the property of the cautest look many also has mend for this extremely the cautest look many also have or our annual crowners and this purpose but care to this purpose but care to the purpose of the thing purpose of thing purpose of the thing purpose of the thing purpose of the thin must be exercised not to disturb the tissues

Whene er the size nature and location of the Whene er the size nature and location of the lesion permit its complete removal such removal is lesson permit its complete removal such removal is popely is done some hierecame in moles. There are obstained should be merinon or sectioning and staining about the The specimen should be fixed and a perma used the specimen should be need and a project nent section made. It is advisable to add a project nent section made. nent section made. It is advisable to that sections tion apparatus to the equipment so that sections can be demonstrated in the operating from to the

nure surgical ream Biopsy should never be done without some plan of treatment accepted in advance by the patient to entire surgical team be carried out in case the condition is found to be

# Baumann J Phys cochemical Problems a S. r mann J Phys cochemical Problems n S r 8 ry (Phys 1 sch chemisch Pr blem n d Chi rurgi ) Med II II 1933 pp 650 693 mal guant

Phys cochemical problems are of importance in both pre-operative and Postoperative treatment oom pre-operative and Postoperative treatment any are sum wasot ed in some respects partner investigation in cooperation with physiologists and chemists is needed. The evaluation of methods is For example in determinations of the hydrogen ion concentration of the blood sources of niveragen you concentration or the mice considers error are possible and are not taken into consideration of error to Unful recently the permissible margin of error

was assumed to be about 0 12 pH today, t is only was assumed to be about 0.12 pf 1 today 1 is only 0.02 pff. In 939, Remers found that determina tions of the bH of schole plood with the dimme hydrone method vared by an average of c 19 pH in arone metaox vareu by an average or 219 in from determinations made with the hydrogeneits. from determinations made with the planescacted trode method. The maximal variation was 0.38 pH. The surgeon is interested especially in the acid

pase edn liptumi the carpophiquate metaponem and the content of the products of t save decompos too and protein fractions in the blood. In e ery open tion the metapolism tends toward acidoses as acidity tion the metabousin tenus toward actions in the operathe wound all general oxidati e blocesses are de pressed by the narcosts and the respiratory regula tion of the acid pase edinipation is uppp ted p) the tion of the acro base equinorium is initio for by Lee centers. The reaction of the plood is spitted o et courses and reaction of the phoof is smiled of the toward acidity and the hydrogen ion concentration. toward action) and the ny drogen ion concentration is increased in direct proportion to the decrease in the alkali reserve. However, if the kidneys are the alkali reserve. ine awaii reserve However it ine sonery significant for interference functioning effectively conditions are restored to numerioning enectricity conditions after the opera-When the kidneys and the circulation are normal the acidos 5 is changed within twenty for hours or at the I test within forth eight hours to

and of the life test which the passes and a definite alkalosis with susceptibility to passes hose the s s fi ficance of postoperative actions handles (are a pri mance or postupicative automated as it has been planted as it has been p thought that pat ents with pre-speratu e shifting of the angle leading and the state of t unouser that pareties with presqueral e suitable of the acid base equilibrium toward the acid s.g. lack res stance and that patients who do not stand operation well are action c This is incorrect Processing went are account to the processing the p pour respondence or parients with executions and the assessed for exceptions but in the cases of 64 executions. and the actions of the total action of the state of the s distinct shift of the blood react. In toward the sike

line side with an accompanying decrease in the alkali reserve and the postoperati e acidosis dis appeared as quickly as in other patients. Even patients ith liver injury are no more endangered by postoperative acidosis than others.

In severe diabetes and Basedo s disease there a pronounced tendency toward acidosis. In the latter the acidosis can be decreased by the avoid ance of ether narcosis Ho ever Baumann advises against the use of local anaesthesia as the postopera tive acidosis following it is not much less marked than that following general anasthesia and there is the additional danger of psychic shock. We need a general narcosis for cases in v high ether narcosis not advisable. No special advantages can be claimed for avertin or narcotics injected intrave nously Especially in avertin narcosis the respira tory regulation of the blood reaction is more dis turbed than in ether narcosis \itrous oxide is still more dangerous in this respect The author cites the figures of \an Slyke on carbon dioxide which indicate that the limits of the hydrogen ion con centration of the blood compatible with life extend over on the acid side as far as pH 70 Of great importance is the disturbance of carbohy drate me tabolism but whether or not this is dependent on the postoperative acidosis 1 as yet undetermined The following facts have been demonstrated

I After severe operations on the stomach or her the blood sugar may rise from the normal of from So to 90 mgm to 180 mgm per 100 c cm and the increase may outlast the acidosis

2 In cases of very severe h er injury the fasting blood sugar may be subnormal and even as the re sult of operation may never rise once to high normal values

under the latter circumstances there is great dan ger Immediate intravenous rectal and subruta neous injections of destrose are indicated to save it le In cases of dabetes such injections must all of the given in addition to injections of insulin and the given in addition to injections of insulin the inference in the blood signar in po Next to cases of it er damage postoperative hypoply.cerma is to be feared most in cases of Baccolor si disease.

With regard to products of metabolism in the blood following operation the author says that un due factic acid production in other narcosis may be p evented by giving oxygen with the ether Buerger and Crauhan demonstrated an increase in the residual nit ogen in the blood Baumann found this increase especially marked in advanced liver de generation and necrosis of the pancreas. In renal disease the protracted elevation of the non protein nitrogen values after operation is associated a protracted decrease in the alkali reserve relationship between postoperati e thrombosis and embolism to changes in the individual fractions of the protein bodies in the blood serum has been as sumed but up to the present time none of the meth ods employed in the study of the problem has been found dependable Baumann determined the pre

operative and postoperative fibrinogen content of 800 samples of blood plasma by a method with a margin of error of only from 1 to 2 per cent early as to enty four hours after operation and dur ing the next fee days the f brinogen content oc casionally rose from the normal value of from 250 to 400 mgm to well over 1 000 mgm per 100 c cm In agreement with Starlinger Baumann found that the liver does not play the part in the formation of fibringen which because of incorrect methods of study has been ascribed to it. In cases of severe icterus he noted a marked increase in the fibrinogen content even in the absence of infection rate disturbances in the coagulation of the blood in cases of liver injury cannot be ascribed to a lower ing of the fibrinogen content. Whether the heparin of the blood is responsible remains to be determined In a recent review of the te ts of liver function Umber criticized these tests adversely. He believes that only the tests based on the carbohydrate me tabolism are of importance in the determination of indications for operation. However as a sufficient store of glycogen is known to be of importance for the other functions of the liver dextrose and in sulm should be given in every case in which an operation involving the liver or biliary passages is performed and in the pre operative and postopera tive treatment in every case in which liver damage is suspected

The metabolic disturbances occurring in ileus have never been adequately explained (loss of important electrolytic secretions of the gastric and duodenal tuice liver and pancreas or severe intorication due to accumulated inte tinal products or inundation of the body with trypsin) The author recommends evacuation of the intestine during the course of the operation by the method and apparatus of Llapp He cites his researches on trypsin in cases of acute necrosis of the pancreas and the diagnostic deter mination of diastase in the prine. He rejects the unbuffered Wohlgemuth method He calls atten tion to the fact that in 1020 he emphasized that for accuracy of the diastase test it is necessary to see that the reaction of the test fluids is optimal for diastase and that the diastase negative cases are those in which the test was made with the old metnod FRANZ (Z)

## DUCTLESS GLANDS

Golden R and Abbott H The Relation of the Thyroid the Adrenals and the Islands of Langerhans to Malacic Diseases of Bone 1 J R 1g of 933 xxx 64

After a comprehensive survey of the literature on the relation of the throad the adrenals and the islands of Lange hans to malace disease of bone and a critical review of the cases studied in the De partment of Viedcine of the College of Phys crains a College of Phys crains and the College of Physical College of Prediction and Coll

Hyperthyroidism produces an abnormal elimination of calcium; the mechanism of which i not un destatood. The comparative decalification of the bones demonstrable in the roentgenogram is so slight as to be of little if any importance. Its appearance is not characteristic of thyrotogeosis.

Hypothyroidi m in adults is app arently associated with no greater incidence of decalcification of hones

than that which might be encountered in any group of patients of the same are

At lough adrenal secretion influences calci in metabolism either directly or indirectly and all though the adrenals may be indirectly unvolved in a pluriglandular imbalance in certain cases of osteomalicia the evidence does not seem to justify the assumption that decalcif cation of the hones results directly from adrenal disease or disfunctions.

Calcium metabolism is intimately related to car bohydrate metabolism. In the cases of diabetic adults roentien evidence of definite important skele 1 i decalcification which can be attributed directly to the disease is lacking. In the cases of diabetic children roentien examination occasionally reveals decalcification of the bones which is probably due to

acidosis or malnutrition or both

In conclusions the surbaye state that the condense at hard indisers that sletted decalineation of a degree suff orest to be of differential diagnostic importance in the neortecopyram and attributable to the endocrane disturbance may be encountered in hyperthyroidism but is not found in hypothyroidism disease of the adrenals or diabetes in a shult J FANTE KREKENTICK M.D.

### Ballin M Parathyroldism Its Cilnical Symp tomatology Am J Roenige of 1933 xxx 571

When a parathyroid gland is irritated by hyper plasta or an adenoma an increa e occurs in the quan tity of parathormone secreted into the circulation This results in an increase in the calcium and a de crease in the phosphorus in the blood serum. The source of the calc um for the hypercalcamua is the skeleton. In addition to the changes in the calcium and phosphorus content of the blood serum and the demineralization of the bones there are change in the tone of the muscles The tone is reduced and the period between the stimulus and the contraction is increased These changes are manifested by las situde fatigability and frequent fall without cause. At 1 oints of irritation secondary deposits of calcium salts occur The most common sites of such deposits are the vertebral I gaments the intervertebral disks the blood vessels and internal organs. The second ary deposits of calcium and the hypercalcamia cause gastro intestinal symptoms such a vomiting un pary symptoms such as albuminums and stone formation

No one symptom is pathogomous. Clauges in the bones demonstrable on roentgen ray examination may be absent but their absence does not exclude the diagnosis of parathyroidism. In the more chronic case is the increase in the calcium content and

decrease in the phosphorus content of the blood serum may be temporarily absent or very slight

Medical treatment is of no axial. Be some room gen treatment has been found success inl. and by others unsuccessful. If reenigen terminent fail operative removal of the adomentor hyperplaie is tissue is indicated. The results of operative removal of the adomentor hyperplaie is tissue is indicated. The results of operative removal of a cellent. As postoperate is ettapy moust be garded against not more than two glands should be the moved at one time. If the symptoms require the removal of more parathyroid is see this should be done at a second operation.

CHARLES H HEACOCK MD

## Morse P F Parathyroidism Its Pathological and Etiological Classification im J Rornige of

Morse discusses ryteogenesis imperfecta fragilitas ossium rickets osteomalicia tenal tickets o tetta fibrosa osteitis deformans leontiasis ossium guant cell tumors the ank-losing polvarithnitis of Oppel and multiple myelomata and classibes them into sux rerous according to the orimary defect of me

tabousm

In the first group be places the diseases in which there is a defect of the mesoblastic tissues through out the body and as a result the connective tissue framework for bone forming is lacking. Ostiogenessy imperfects (in children) and fragilities or sum (in adults) fall into this grouf. There is no defect in calcium metabolities.

In conditions of the second group the fault is in calcium absorption or fixation. The intake of calcium in the food or the intake of vitamin D or both are inadequate. Rickets (in children) 2-d osteomalacta (in adults) belong in this group. 182-2 there is no elevation of the blood-calcium level.

In the third group are placed certain conditions in which there is an increased exerction of administration of the bone but to disturbance of the parath roads. Examples are the malacus seen to exophthalming goter pancratic dabetes and hasophile adenomata of the p tu tary gland

The only disease in the fourth group is renal rick ets. As a result of the nephritis there is retenuo of pho phorus. This cau es hyperplana of the parathyroids which in turn causes hypercalcama.

and decalcification of the bone.

In the next group are placed several diseases that do not properly belong in this discussion but in which the bones suffer a result of crossin from the growth of abdominal tissues. In this group a c Schueller Christian disea e. Gaucher's disease. Memann Pi k disease and Hodghin's disease.

In the last group are placed all the diseases which are believed at the present time to be due to primity parathy routes I have been good belong order in Shows cystica ostetus deformans (Faget's disease!) leonis ossum the anky losing poly arithm of O<sub>1</sub>Pel and probably guart-cell tumors and multiple mise loma Cructez H. Haccort VD

Lockwood J L and Hartman F A The Rela tion of the Adrenal Cortex to Vitamins A B and C E docre of ey 1033 1 501

Tests were made on animals to determine the influence of extracts of adrenal cortex on the effects of a deficiency of Vitamins A B1 and C respectively The experiments with regard to Vitamins A and Bi were made on rats and those with regard to \itamin C on guinea pigs

When administered by mouth the cortical extract gave no protection against the effects of a deficiency of Vitamins C and B1 When injected intraperitone ally it improved the growth curve and scurve score in the animals with a deficiency of Vitamin C and improved the growth curve and delayed the onset of symptoms of deficiency of Vitamin B: but had no influence on the effects of a deficiency of Vitamin A

The weight of the adrenals showed hypertrophy of these glands in animals with a deliciency of Vitamins ( and B and atrophy in animals with a deficiency of Vitamin A After unilateral ad renalectomy on animals with a deficiency of Vitamin C the activity of the remaining adrenal as measured by its influence on the onset of scurvy increased to a degree greater than that noted in animals with two normal adrenals

The injection of cortical extract containing cortin delayed the onset of symptoms in deficiency of Vitamins C and Bi but had no influence on the symptoms of deficiency of Vitamin A Lither cortin or some unidentified substance must be responsible for this effect is this substance must aid in the utilization of Vitamins C and B; the authors suggest that an ample supply of these vitamins

might be advantageous in deficiency of the adrenal J FRANK DOUGHTY M D cortex

Scott W J M Bradford W L Hartman F A and McCov O R The Influence of Adrenal Cortex Extract on the Resistance to Certain Infections and Intorications Endoc in ! gy 1033 XVII 520

The administration of an extract of adrenal cortex has been shown to increase the resistance to infection of animals whose adrenals have been removed. The authors report experiments which they carried out to determine whether it will have a similar effect when the adrenal glands are intact Experiments were made on guinea pigs with diphtheria toxin on rats with trypanosoma equiperdum and on mice with the pneumococcus

It was found that the administration of cortical extract three times daily gave no protection against the minimal lethal dose of diphtheria toxin given in a single injection or repeated fractional doses did not prolong the life of rats infected with the trypano soma equiperdum and did not have any appreciable effect on the survival of mice infected with the

pneumococcus

The authors conclude that until some objective method is devised to show increased resistance to chronic bacterial intoxication, the administration of extract of adrenal cortex to increase resistance to infection in clinical cases is not warranted cally the evidence does not indicate that any benefit is to be expected from cortical extract in acute or subacute diphtheria intoxication at least not unless the extract is given in tremendous doses

CLARENCE C REED M D

# BIBLIOGRAPHY of CURRENT LITERATURE

NOTE-THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE I DIC TE THE PAGE OF THIS ISSUE OF WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

## SURGERY OF THE HEAD AND NECK

### Head

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J So th Carolina W Ass. 1933 xxix 4, An experimental st dy f c roeal vascularization, L. A. JULY TILLE M C MORRIS and R. W. H. REISOV im. J. Ophth. 935 xvi, 90

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#### Nose and Sinuses

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## Pharynx

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Unrenneur 1933 XXXIII 227 Immediate t assilectomy in the treatm at of parat a u Ohrenheilk. 1933 xxxiii 227 immediate t insufectionary in the deather not of paract is sillar becess. A. Zambrino Rev med. d Rosano 933

Mel noma of th faucual t assis metastatic a case re port. F O Lewis Med Clin. North Am. 933 Yel 10tm 770

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Brit J Surg 933 rri 173 A rare case f r troph ryng al ersophageal g seous A rare case i r tropa ryug at esopuageat § seous abserts duagn ed by means of the V rays E Prizoguo

Radol med 933 x 1334 Cystic tumors of th neck b anchial nd thyroglossal

R. W. VICLE L Indian A large fibro-ad n ma f the neck B \ SH xin 1083

M Gaz 933 levin 572 Thyr d disease in th Orient. H. W. Miller, Chin. e.

VI J 1953 xl u 953 the second [197] MITTER VIL ON Lancet 933 ccars 108

AICRE Y LON LABOUR 915 COXX 100 [137]

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933 xh 5 9 The lymphatic syst m of th larynz. M GCEMENT Presse med Par 933 th 73
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The diagn s a d treatment of intracranial incuries R. PIETRI J Med Soc New Jersey 1933 XXX 762 Immediat treatment of fractures of the base of the skull C LENORMANT P WERTHEIMER and J PATEL-[200]

J de chur 1933 xlu 529 [200] Tw cases of cra 121 tra ma treated by a bocc p tal drainage foll wing resect on of the post n r arch of the tlas. J DE FOURMESTRAUX. B il. t mem Soc n t de ch r 1033 lix 1240

The sequelæ of head ing ries and their t eatment. [200] OUE SEL Med Welt 1933 p 1 43 Expert opinion on inj ries of the brain and skull.

E Bruss. Schweiz med Wehnschr 933 ii 740 [201]

C ses of error in the e al auton f d sability f llowing Y ZVAITLER | Med Soc New Jersey h duning

1933 XXX 66 Chroni posttraumatic subd ral hæmatoma operat n recovery R. FISCHER and G DE MORSIER Presse méd

933 XII 15 7 Clinical manife tat one of intracranial angurisms F J

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Presse med P r 1933 xli 834 The diagn s f brant m rs F L Rescrier Int

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Clin N rth Am 1933 xiii 010 B mon e capsulated tum is in the lat al entricles f th brain diagnos s and treatment. W E DINDY Ann

Surg 1933 cvin 84
Associated f cial a d intracranial hæmang mata Roce s But J S rg 933 xri o [203] A trocytom of the ce ebell m utv al period (forty [203] fi ey ars with ut operat n L HAUSMAN and L STEVEN Arch Nur I & Psych t 933 xx 00

Th limical pict re d rad cal treatme t of mult ple t berculo s for in the brain L BENEDEK and T HUETTL Dutsche Zisch f Chi 933 cc 1 554 S regical o d ratu s f arc n m to m t sta es t th brain E Oldberg J Am VI As 933 X 458

Complications of llowing peratum on the brain Ex. S. D. utsch. Zischr. f. Chi. 933 cc. 1 663. M. ningiti. C. O. Criminos. L. ryng sc. pe. h 880

Pachymeningitis nt rn hæmorrhagica of traumatic onem A Opasso and F Volante Arch ital di chir, 933 XXXIV 676

Sanocrysin in tuberculous meningitis T B Broadway
Brit M J 1933 1 972
The relation of endothehoma of the du a to the skull bones from the surgical standpoint S A BERNSTEIN

Arch f klin Chir 1933 clxxv 638 Observatio s on the esults of the operative t atm at of triger pal peuralgi K G Mckenzie Canadian M

Ass 7 1933 XXX 49 Some clinical syndromes of the fifth cranial n rie H R DEW Australi n & New Zealand I Su g 023 111 130

## Spinal Cord and Its Coverings

Anatomical and functional rel t onsh p f the nucl dorsalis (Clarke a column) and of the dorsal spinocerebellar tract (Flechs g s) I J Pass Arch Neurol & Psychiat. 1933 xxx 1025
A st dy of the communications between the sub

arach d space about the cord and the lymphatic spaces f the spinal nerves E BENASSI Radiol med 933 x

A case of total a d transitory amauros a following the intraspinal injection f lipiod 1 T Ropriguez pe minispinal injection i pipior i 1 KODRIGUEZ DE MATA Actas Soc de cring d Madrid 1933 n 65 The treatment f sciatica by epidural sac linject ns P F Wintaker Virgin a M Month 933 it 489 Scollot c p ripplent. Anne Thomas Sorrel and SORREL DÉTERINE P sse méd Par 1933 xl: 542 [204]

Paranl gia in a case of lymph granulom tosis K OFLACH Deutsche Ztschr f Chir 1933 ccxl 38 [205]

My little and myelopathic lesions VI C ses with ma k d circulatory interf ence and a pictur f syringomy 1 C Dayison and M Kescenser Arch Ne r 1 & Psychi t 1933 xx 074

Spina bifida occulta a sociated with trophic ch nges in the legs G BARRY Proc. Roy Soc Med Lond

Res lts of surg ry in spina bifida A KOLODNY J Am M Ass. 933 ci 66 Diagno s and operat treatment of ntrad ral e tra

medullary tumors J GOYANES Actas Soc d carug de M drid 1933 ii 199 Spinal puncture H D Jump Internat J Med & Srg 933 xl 1 535

#### Peripheral Nerves

Study s in the periph ral n ryous mech nism f pan 1 ZOTTERMAN A ta med Scand 1933 lxxx P ripheral nerve les on their treatment d p ognos s. B B NEWBARR and F D NEWBARR West. J Surg Obst & Gynec 933 xh 628

Experime ts with rega d t the numer cal n ea and the d tribut n of ners fibers in rege erating n rves A M Dogliorri A ch tal di chir 933 XXXI

[205] Herpes zoster E. L. Young JR Am. J Surg 1933

rlaf slig a paralys's of the serratus Th m gnus. H. O Forcar But. M J 1933 n 865

## Sympathetic Nerves

Sympath ctomy n a teri pol myelit E D Tell FORD and J S B STO ORD B it. M J 1933 770

A new case ip raplegia d to P tt d sease cured by esect n if the lumb sympathet. Allis and Diez 276 Soc d c rug de Buenos Air 933 E. Bilate alsola chair resection per end dibete.
Bilate alsola chair resection per end dibete. PE IAMATS and TENN ann it ised 1933 1 422 a
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## Miscellaneous

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Surg 1933 xxun 5 8
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Traum te neurosis-fact or ficti n J H. Desirster.

Intern t. J. Med. & Surg. 933 xl 1 5 9

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933 FEET 3
HA dtd Cyst fith ling in pulmonary t berculous 
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The dic to n for coll p therapy n p lmonary tuber cul sis I D Broxers Ann I t Med 933 vi 468 1210) Collapse the py in the treatm nt of tuberc loss of the lu rs S H MARIN Chin se M J 1933 xl u

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## 1933 XX1 431 Heart and Pericardium

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## Esophagus and Mediastinum

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## M scellaneous

C g tld ph gmatic h an tmcpath lgcltdy CJD v RF Sm md 933 193

Dispuragment c hermin and secondary anarmin t n cases. A Book J W Dothy and P A Brook New England J World 1933 cut 615
Dermod cyst of the thorax. A. D Beyan Surg Clin North Am. 933 min 16
Intrathoracce dermond cysts and t rat mata with a

rep rt of 6 personal cases and 185 cases c II cited from the literature C A Heronom J Thoracc Surg 1933 ut 225

SURGERY OF The thorace I pom to f J Herre An C og 1933 sevus Sor Primary intrathoracic malignant t more M P Nest.

South V J 1933 IT 909
Ad an es in thorac surg 7, lunes plrurs hear percardum and disphraem. A. RCIII Zentralld. (
Chir 933 p ? ?
Spinal amesthesia in thoracic surgery H. ] Smrins.
Canadan V As. J 1933 Kur 548

## SURGERY OF THE ABDOVIEN

## Abdominal Wall and Peritoneum

The treatment lint reostal neuraleta of the abdominal wall J B CARNETT and W BATES. Ann. Surg 1933 ac nu 8 o

Spontaneous herma in the semilunar line of Sp g liux. G COSTA. Arch tial dichar 1933 xxx 70 [217] H mm in the line of Spiegel. R. Foura xxx. Bull. Soc. d obst. et d gynéc. d Par 1933 xxii 69

d obst. et d. gynée, d. Par. 1933 xxu 69 The I ram nt t res as a path g nic factor in ep rastri hernia. V Azezzar Polichin. Rome 1933 xl sez prat.

Fort n 20 100 collected operations for inguinal h max

N Brock, Arch f kim Chur 013 clery 60 [217]

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Patent urachus. W. H. W. St. C. W. Streamer and

G A. UNITCO Am. J Surg 933 xxu 20
Sarcoma of the ura hus H K RANSON Am J Surg

1933 XXII 187
The bactenology of acut pent nuts P CAZZAMALI and R Michigensa. Inch tal dichur 9 XXIIV 573
2181

Encap ulating pent nits a ca. eport. R. Bovve r. Bull. et mém. Suc. d'chimmens d. Par. 933 xx. 43. Surg ry. n. the tre tment of neapsulated pentonitis. R. Bovve v. Rev. d. chir. Pa. 1933 lb. 638.

The train at of pneumotoccal peritonitis H. Scr. v. mg. Zentralbl. f Chir. 931 p 1344—
The abuse of the dramage tube n in the timent of periton its with an anal us of 44 cases of diffuse peritonitis with an anal us of 44 cases of diffuse peritonitis traited without dramage 4. J. Tarnca. Med J.

I mits treated without drainage 1. 3 1215C2 Little 3
Au trait 933 ii 465
Recurring mesentene thrombosis II II Jone 12
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J Surg 1933 Kui, 3 <sup>4</sup>

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Bull. et mém Soc. nat. d. chur 1933 hr. 2 4 Amputati n. f the omentum due t. torsa n. Gette I. Bull. t.mém Soc. nat. d. chur 1933 hr. 2 3 Hamanono-e d.th. h. ma of the m. ntum. C. S. Watte. Am. J. S. 1933 xr. 295

## Gastro Intestinal Tract

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intests al tract with comm nts upon drainage I the body on it es J R. Paine and O H. Wa or ster. Surg Cyme. & Obst. 1933 1 601

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ir phy observed in mants G Lvo and A BERGERY Prese mid. Par 1933 it 166 Chron chypertrophic t no of th pyl rus m ad lu. E.W. Twixts Brit. J Radiol 933 vi, 644. [218] Emphasis on certain phases I the breatm it of co

E. W. Twends. Brit. J. Radiol. 933 vi. 644. [215] Emphasis on certs in phases. I the treatm of dic is nital ppl. nic st. nosis. E. M. Miller. Varg. Clin. North Am. 1933. xiii. 13 Splen inegally. J. Rastric haim inhage. H. 48 Willy

Nod il Tijdichi Genecal 1933 p. 2 S. Surgical tetatiment of acute pastini harm ritage. H. Fr. Tixek J d. Chir 19 3 zluj, 6 3. Gastrecolte in-lule due to carcinoma. J. Fafede, William J. F. L. Hyd tid yest spith prime into the tomat. R. L.

Hyd did yst with right e into th form h. R. L. M.sciottra and F. F. Fraza no. Rev. méd quiturg d. patol. fem una 933 363 . A chincal and therapeutuc tudy of gastn. and duodenal

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m 1365 Chnical d roentgenol sical results obtas ed in th treatm t f ga tric and dund al ulcerative d sea e with sodi m benzo te 1 Pozzi and L Sporza Plcln Rom 933 xl eez med 569

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  and P J SARMA Su g Clin N rth Am 933 mm 221

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- (223) Comm n ca ses If thur t cure ectal fist la D L
- Inflammat ry d sease I the rectum d rectal te osis I SENEQUE Bull tim m Soc nat d chi 1933 lir
- Lymph d n ma f the rectum A A Ersters Arch f th Chir 933 clery 351
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  ne f roeals n a d rad um rays G E Brocks J
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- 527 The relate n h p of the blood pply d lymph to dra nag f the s gm d and rectum to urgical p ocedu es una mag 1 cine s gui q amu reccum no urgicai p octou es. K E Switz Nest J S ig Ob t & Gynec 933 zli,
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- m. 933 xiii C<sup>3</sup> Rossex J Lancet, 1933 liii, 584 Ham rih ds. C<sup>3</sup> Rossex J Lancet, 1933 liii, 584 Ham riho ds. a ch. cal and therapeutic co. pt. ( 1m 933 mi Zo R QUIN Re med Lat am 933 rvn
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## GYNECOLOGY

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Il Noresocial Zischr f K ebsforsch. 1933 KEN 91

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f Gyn ek 933 p 1271
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t bercul us ovarian abscesses J Marx. Orvoskép és

O nan d mond A Koplowitz M Jacobi and N RIEBSTEIN Am J Surg 1933 XX 1 345

I report f two cases of gr n losa c il tum rs of the o ry E F Duty Am J Obst. & Gynec 933 xxv1

nulosa-c ll tumors of the ry M Scrittze Am J Obst. & Gyn c. 933 xxv1 627 Hæm rrhage from a rupt red choc I te cyst

H INES Am J Surg 1933 xt 356 A case of isolated tuberculo a infection in a multilocular

o anan cyst. M Nielsen Acta ob t et gynec Sca d 1935 1 2 8 Solid t m r f the o ry in a girl f fourteen years BE VARDE to a d SICARD Bull Soc d bst et d gyn(c

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f Cynack 933 p 167
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### Miscellaneous

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franc d gynéc et d'obst 933 xx 11 or A case f bsence of the uterus and adnexa E T

Dry Avevich Semana med 1933 xl 1038

The growth C parties and A Soi Diagnostic vagin I punctu

MARU Gynecol 1933 VIII 27 The diagnosis of pains in the lower abdomen E Sprea.

Zentralbi f Gyn k 932 p 2494
Pain in the internal femal genitalia G PAROLI Arch d ostet. et ginec. 1933 xl 593

An enc relin operat o on the vul a for genital prolapse J VANVERTS Bull Soc d bst tde gynéc de l'ar 1933

XXII 673 The vaginal cycle in sheep F RICHTER Arch f Tier

ernshing in Tierzucht 1933 L 231
The prod ct on of restrus The rel tionship between the

acti e pri ciples f the placenta and pregnancy blood and urine and the e of the anterior pituitary J B Collins H. SELYE E M ANDERSON and D L. TROMSON J Am M Ass 1933 C1 1553

The excretion of pr lan in the urine of old women C HAMBURGER Klin Wchnsch 1933 1 934 E docrin lorical diagnosis in gynecology

MANN Zentralbl. f Gynaek. 933 p 095 The niluence of the endocrane glands on menstruati

k I. Wilson I Oklah ma State M As tott xx i 392 The problem of irregular menstrustion C F Filis

MANY Am. J Obst. & Gynec. 1933 XXVI 642
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932 m 183 The treatm nt of dysmen ribota Schiller Zischr f

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f Gynaek 933 hn 375 [232] Th c mpl ment h t n testing rrhora in the female F Diegert a d k W Schichter. Zischr f Geburtsh. u Gynak. 933 cv 14

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Pyrog m treatment of go rrhera with malana a d yrif F Voor 933 Tu b gen Dissertat b The treatm t of acute pel inflammation J M pyruí PIERCE J Med. Cincinn to 933 El 471

End results in the t eatment f pelvic infection A II Aldridge. Am. J Obst. & Gynec. 1933 xxvi 5 [233]

The dagno is fad nomyo s ad of aden my ma of the uteru I HALBIN Zentralbl. f Gynach out p

A cas folt fibrems Kulikowska Bull Soc d b t et de gyo c d Par 9 3 xm 69 The use of \ ray in papillary cvstad nocar inoma of

th o ary A D BE AV Surg Clun North Am 933 XIII 1161

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gynéc d Par 933 xu 69
The treatment of tenhty in woman F C an Ton CEREV Nederl Tyloch v G neesk 1933 p 2 00 Sterilization s a contracepti e J H Bell, Lirginia

M M ath 1933 L 485 Temporary st robat n by radiat n I LAMARQ E

Cyn c et obst 1933 xrv 11 9 The germ cells of the g nads \ Stenlization if the gonads a th embryo with cents a rays W Dan't schaeder Zesch f Zellforsch 933 xvin 56

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f anc de gynée et d bst 1933 xxviu 770 The value of the centre n ray in gynec 1 gy J J acted

4m. J Sur 933 xx1, 3 The present status of irradiation f benign gynecological ond t n C I Garss Strahl uth rapie 1935 xi'u

I flammatory complication. I radium therapy For nd Ancusta. Bol Soc. de bet y ginec d' B cues A es ou au bor Imp ess us after ten years use of radium. I Free

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### OBSTI TRICS

### Pregnancy and Its Compl cat ons Nutrit n a d childbearing E MELLANS La cet

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### tralbl. f Gyna k 1933 P 2 Puerperlum and Its Complicat ons

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<sup>39</sup> Pu rp ral hæmo h d t fibroma hyst rect my R SCHWARCZ B l Soc d obst y ginec d Bue os Aires

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Symphyseal pain as a s on f the neet f phl b tis ! ! lowin labo AUDEBERT RIBAT and BOURDEL Bull.

Soc d obst. et d genec de Par 1933 ru 195
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rd BOTREEL Bull. Soc d b L et d gyncc de Par 1933 XXII 7 9

### Miscellaneous

An analysi f coo b tetrical cases. R. T. Porres J Med Soc. New Jersey 933 rrs 70
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HERMSTEIN Med Aln 1933 11 899 Interruption f pregn cy and the production of ste il ity with p rticula r ference to soc al and e gen c ndica

tons BENDER FIRSTEIN WALTHARD MAYER I DEDIN nd zu Donna Mitt inte nat kriminal Verige V F Nicot e in breast milk W B Thompson Am J Obst & Cynec 1933 x : 662

### CENITO-HRINARY SURGERY

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A rare suitcation in the lumbosacral remon G R. GIRDLESTONE and C. T. HOLLAND, Brit J. Radiol. 1012 vi fit

S c alization of the fifth lumbar vert by as the cause of sacral pains A. Beck Z ptraiblef Lbut 1032 D 7 8 The recognit n of hip-jo nt injun's in children H
STER BERG Arch f rithop Chir 1935 EXRII 2 o
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Prehallux in r lati n to flat foot. F C FIDNER J Am. 11 Ass 933 Ct 1539

Pes cavus of co r rutal synhilis. C. N. Gorr &m t res caves of the 3 9 T Koellines Zentralbl ( Ch.,

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IONES. I Bo e & Joint Surg 1913 Ev 86 Complicated contractures of the ha d th ir treatment by freeing fibrosed tendons and replacing destroy ed tend as with grafts S L Koch Ann. Sur out the tal Arthrodesis f r co algua. Thesis of Paris P Burnon

Presse med Pa 1013 th 674. The gr at t ochante in children iliodiaphyseal arthrodesis by an at rnal ute in coral a in y ing patients
DELARAYE and DEPUT Arch. fra ro-belg de chir

93 - 93 XXXIII 1033 Immobilization f the hip in Bechterew's disease. H. SPITZ) Zischr f orthop thur 1933 hx 2

Arthroplasty of the h p P Bane. Zischr f rib p 033 hr 14. Origin I features of arthroplasty of the hip and knee.

F IL ALBEE | Am. M Ass. 1933 Ct, 594 The rôle of fu nop tions as pplied to the hip joint

G K. GERDLESTONE. Brit. M J 933 n 777
I ng tion of the knee in chr nic recurrent bydrops. MOSENTHAL Zischr f orthop Chir 1933 hx 1 5
Arth odesis fo t berculos: f the knee ad pstella. V Putti Chi d. rgan dim u ento 033 rvm 2 ?

of the k ee nd fu n by mean fan a tog s pedun ulated patella graft. G Moccis Ch. d organi di movimento 1933 VIII 154 K ee j at a throplasty W R. MACATSLAND J Am.

933 CI 1699 Conservati e treatm at of ruptur of th internal lateral ligament f th kn DEUS TR. Arch I orthop Chit

933 XXXIII 2 Experienc s with the Lettermann in thod of foot cor rection H SCHERER. Wo atsschr f Unf libeilk. 1933

Experiences with the Lettermann method f foot cor ctin E Berriann Mo isschr f Unf libellk. 1933

Crushing of the pe o eal rie fo sp tir fi t foot. 1 LILIE YELD Zentraibl f Chr 933 p @ Prostheses to flat foot E FISCHER Arch f orthop

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### Fractures and Dislocations

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Kentucky M J 1933 Exx 515 Closed injuries of the pine E Kroz Erg bn d. Chir 1933 IX 7 63

Fractures of the pine W S H LGHTON Bint. M J 933 N 7 4 A case of total trans ree r tension fracture I the

third lumb r ert bra P DELTICKE. Dutsche /tschr f Chir 933 ccxl 778
How shall we tre t riebral fracture \ criticism f

th m thod of Magnus and Boehler J VIDAL Centralbl. f Chr 1933 | 1402

Mas e bo e graft in the treatment of ununited fractus rep : I d fects in the long bones and I sion of the spine E L Compense Surg Chin \ rith \mathred{min} 1933 1261 Bone grafts for ununited fractures of the pelvis 1

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rth p Chir 1933 XXXII 248 The so-call'd norm I hip n nil teral co mtal d location R. Massart Bull et m m Soc d chirurgiens

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An unusu I tarsal dislocati n T A Diriand Guthrie t.lin Bull. Sayre Pa 1033 m 51

Orthopedics in General

Fifty first report of progress in 1th pedi surgery 1 G AUBUS E. F CA E S VI KOBERTS J S BURE and others Arch Surg 933 rriu 9 a.

P ints of ossificat in in premature infants radi lopeal study C M Pyvos Semans med 933 xl, 944 Electrobaseg phi method f reco ding gatt. R. P. SCRARRIZ A L. HEATH a d.J. WEIGHT Arch. 5 b.

1011 XX111 0 6 Inhib t n of growth in length of the I ng tube bones

d e to m; ry f th epiphyses. C A. Wollenber Zisch f rth p Chir 1933 hr 2 2 The pathology in twins with particular el ren to o th ped c conditions. L E H RIN B ir z tha.

Chur 933 cl 12 4 t \asoph ryngeal torticollis rthoped c correcti under

rects l. J d med. de Bo de u 913 cz o Practical results I atension of the crucal at bre with rubbe C La serre. Bod unch 1911 \alpha\_L 352

### SURGERY OF THE BLOOD AND LYMPH SYSTEMS

1033 XX.

### Blood Vessels

M grat ry p jectiles coudit ns necessary f r penetra tion of bull is int the blood essels R. PIÉDELIEURE and P ETE TE MARTIN Presse m d Pa 933 Xh Stud es with roentgen the apy to thrombosi I G I

zigo. Ozvos hetil azz p 428 Ce ebral mbolism of pulm nary origin I B STEN

BUCK Am. J Surg 033 xx 330
A sumple m thod of producing a odulatati n in the I we extr inities with ref nee to is usefulness in tudes of periph ral vascular dise se E M LANDIS and J IL GIBBON JR. Arch Int. Med 1933 h. 55

M M POWERING and I S TUNICE Varicography Surg Cynec & Obst. 933 l 689 Varicose ins nd ulcers G pe T E Nowsk and F J

SARMA Surg Clin North Am 1933 XIII 24
The treatm nt I anco e ulc r M C HARVES J M ch gan State M Soc 033 xxxu 546

n th sclerosing treatme t of

A techn cal contribut arices. A PORGES W n med W haschr 033 694 The aluation of sods m mo huate therapy in an ose e ns a critical study H. B EGELEISEN S rg Gynec

& Obst 1933 1 1 606 Lat res its function tre tment of mose ing

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(257) lean a o Cht nic rten locclu : n I the atremities. D GRAHAM

Ann Int Med 1933 V1 431 neurism. J F HEAED and Intracran al a t ra P D ABRANSON Am. J Surg 933 XXII 3 5

Occupation all aneurism of the palma, art ness. D. W. Mindeleron, Bril. J. S. rg. 1933, xxi. 2-5.

An urism of the fem ral art ry. A. D. Ben. n. S. rg.

Chn N rth Am 933 am 1 69 Inflammatory diseases 1 th rteries with particular

refere c t th m reacute f rms. D W KRAMER 5 m Clin A rth 4m. 1933 xm 59
Penartentus nod sa. T keel and R. H. Q. E. Med.

Chn No th Am 1933 x 11 665 Two cases of indarterities bliteran Schi Deri Zen

tralbl. f Chr 933 P 12 1 Arterioscl rosi of the I we extremities with pecul refere ce t treatment in diabetic gangrene W Il Olix STED a d I Y OLCH J Misso n State M Ass. 1933

XXX 4 7 The th rapeut c results I sten graphy in the xtrem ities. R Demeland W Scaliffer, W n khn Wennicht

1933 ii 1 043 Th techniqu f suture f small art ries. Voss. Zentraibl f Chir 933 p 820

Embolect my f th penph ral art nes a report of three cases. B Portus and H. A Rotti J Am M 488

033 CI 5 B

Accidental inj to the ommon carotid artery de the ligation econ ry E G ozi Arch, ital, di chi 1913 122 XXXI 495

### Blood Transfusion

The are any set 5 purposes have trhance. E. F. M. s. And I am J Surg 933 EU 9
Ant num th rappy in p rp ra a case report. R. B. LAN Dr. E. and C. A. BELL J. Med Soc. \ w. J. rev.

Indication f blood transfu u B Breitven Chr [255 CF 933 V 30 Is post perati thromboph! b us in chronic anamia a Contra indicati in t Bood transfur. In R. Boyes and
L. Dinomne Brux Resmed. 933 xm 14
Th. un club bity I test sex fo blood groping. H.
By KKLE DE LA CAMP. D. (sche Zisch. i. Ch. 935

Blood tran fusio J D Ixaro F R med d Rosan 933 1254 2

Clinic land laborat ry st dy of co blood tran f si ns I CHEDIAE A S AZZI and A DEL FRADE Med Ibera 933 XVII 5 9

Lymph Glands and Lymphatic Vessels Serum treatme t of Hodgkin s diseas N R BARRETT d L T Bond Lancet 1933 ccxxv 855

B lateral maligna t cervico-avillary lymphogranul ma tos s J de méd d Bordeaux 1933 cx 718
Paragangh n of th carotid gland L Picaro and H LADURON Re belged sc. m d 1933 v 531
A discussion of the lymphoblastomata E STEINFELD M d Chn North Am 1933 x 11 805 The treatment of lymphaden ma with chicken s rum RIV PLLVERTAFT L cet Q13 CCTXV 857

### SURGICAL TECHNIQUE

### Operative Surgery and Technique Postoperative Treatment

The steriliz t n of ope ting knives H von BAEYER tralbl. f Chr 1933 p 1349

How to en r an accurat count of sponges J F The p se t status of elect rgery II VON SEEMEN

Chiru g 933 v 301 Th lect rgical unit a surgery F A GEL. So th

M & S 1933 xcv 593

The water requirements f surgical patients F A COLLER a d W G MADDOCK Ann S g 1933 xcvu 952 a source of ped cled kin grafts A G

The bea source of ped cled king BETTMAN N thwest Med 1933 xxxx 453 Horseh r for skin suture M SIEBNER Chirurg 033

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A c s of burning by lectricity in a child A H W ROFFEY Proc Roy S c Med Lond 1933 xx 11 27 Lymphat c pathology n lat on to the t x n f b rns F A FENDER S rg Gynec & Obst 10.13 Ivii 61 Hypochloram a d hypocholu ia in s ere burns

Barra and Borov Bull tmm Soc nat de chr 1033 Deep plantar phl gm COSTANTINI and LIARAS

1 933 lu 326 [259]
T tanus R A Wilson Am J Su g 933 xxu 343
Clinical tet s H I Vener \ G Bower and J E 12591

Mckerso Chforn a & West Med 1033 xxxix 300 Generali ed tet with the pr bable po t of e tr ce i the bladde re ry nun tion i p gnancy M Duvorg L Pollet and R Couper Bull et m m Soc

m d d hop de Par 933 hx 60

The importance of tetanus infection in H g ry BARAY a d D KLIMEO Orvo k p s 1933 in [260]
Ac mb atto of acctn th r py ds th mpy in the
pr vent traim nt f t t u CLANEL and CLATEL

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### Anæsthesia

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Exserv a d I W KERNORAN I Am M Ass. 033 The use of a local anaesthesia in inflammatory ties es I Messing Zischr f Stomatel out xx1 7

A new method f anaesthetizi g for peratio s n th intra abdomin 1 orcans M FRIEDEWAYN Zentralbl. f Chir 1933 p 154
Indicati ns fo et p a sodium E Kober. D utsch

med Webnschr 1033 006

E nan sodium anasthesia in majo surg ry M Friene.

MANY Chirurg 1933 V 344

Our experiences the pan di m as a c trollab!
intravenous anasthes O Ragouzzy The ap d G g nw 1012 les v 15

Pathologico anat mical findings in artin deaths W Scorrey Zent albl f Path 1933 I m 64. 12601 Coramin in I rged ses as stim lant f llowing av tin anæsthesia H DIENZ De tsche m d Webnschr 013

C ramin in denarcotizat n and res scitat n P M

Wood Am J Surg 933 xx 86
The present status of ethal n J C Herr I Am M

A s 1033 Cl 1716 Combination as run eth rect l anæsthesia spers m nts on a mals G H HUNT Arch Surg 033 ggv1

The relative m rits of spinal a d ethe anæsthesia. H L. Foss a d L | SCHWALM, J Am M A s. out Cl

Spinal angathesia. L. H. Mayso. Calif roll 8 lb ... Med tott XXXIX 02

Med. 1933 XXIX 92
Blood p ess re r adings in spinal annithesia. A. F
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### Survical Instruments and Apparatus

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### PHYSICOCHEMICAL METHODS IN SURGERY

### Roentgenology

An impro ed c sette h lder H H HEVLAU a C MAYFIELD Rad 1 gy 933 xx 494 An appa tus for blain ng typ cal and styp cal d ta t exposures R S NDERA A ta ad ol. 933 xi 5

Experimental res a ches on the use fithe trast by the intrap ritoneal and intrapleural rot E. Ruggieri and E ZANETTI Ann ital d ch 933 xi 853 [262]
Foreign body r m I with the and f the d ubl plantg n scope W F M NGES Am J Roentg n L [262]

1933 xx 674 A new project of the octg lgy fth pts men J Friman Dani Act dol 933 m 47 Th roestg n l geally demo str bl at mical ca dia lgy fth ptc

T RESOLV and L KOPPENSTEIN Acta rad 1 033 V The visibility of the plm ry essels (a gipn umos nbv) I. De CAR ALHO a d E Movi Acta radi l

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Radiology 933 xxi 454.

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Acne releases f in the tadiological sta droint. B H Smr. Radi logy ott xx 46 Rad at a therapy in skin ca cer H E Martin

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### Miscellaneous

An apparat s for the prod cts n f local heat in body tas by mea s f high frequency electric f lds. F W

B SHO Radi | S) 933 xxi 487
The treatment of chores by d ced pyreus. J W
CHEFINAN. But M J 933 u 85
Pyret th rapy d ch m therapy n the treatment to the definition of the control of the c primary deco d rysphils a experim talandchin cal t dy C Richer J Dribli ear a dF Jola Presse med. P 933 h 649 The b 1 gical act on of rad int light and its use in medicine L \ Turley J Oklahoma State M Ass 1933 XT 398

Hypers next ity of the skin to light L R. Talesic Californ & West Med 1933 xxxiv 3 I CAMOUND & WEST WEI 1993 ALINE 3 On Cell J C
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Ultraviolet irradiation and e perimental tumors Eminou Acta radiol 1933 1V 4 5

Raduati th pp in medic l practe t Ponte Wi con a M J 1933 xxx 1769

Th treatment f mali-mant melan imata of the skin and

vulva at the Radiumhemm t Stockholm 1 M SCHARNA [263] GEL Acta rad ol 933 x1 473 [263] Rep tof th Comm thee on Fadium and X r y Therapy P oc. R y Soc Med Lond 933 XX H 9
The eval att n of det th doses of gamma and ro tgen

r ys W J REES a dL H CLARK Brit J kadiol 1933 vi 588 The results of rad ation studies H HOLFELDER H HOLTHESEN O JUNEAUS HI MARTIES and H R SCHINZ 1033 Le DZIG Thieme

### MISCELLANI OUS

#### Clinical Entitles-General Physiological Conditions

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The q estion of embryo al injury as the cau e ! cong mtal deformities did seases L Kiewe Zischr f 0 ... p Chir 933 hr 305 345 48 [264] Uns spected i gn body in th hand I Fraser. Lancet 1933 cexx 92
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R m rhable ca es of gangrene M NIPTE and R M MAYER Deutsch Zt chr f gerichtl M d 1933 xx: 1 o C cygerl mus R L Newell B t J S rg 1933

xx 2 g Lrythroblastic anæmia (Cooley's synd m)

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rini, an there we rimal i dividu land in an ind i d l with ac in galy and diabetes. T. H. McGs. ex an i H. C. Shepardoon. A. n. Int. Med. 1933. 58 Myom ta. ftte skin. M. MERASTER. Semana méd.

1933 xl tos The history I can e W W MILLAR J Wed Ca c anat 1933 x v 455

chinal 1933 x v 455
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The present status f the biopsy A B McGz 1 a d
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M d W k 1933 pp 6 6 091

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### General Bacterial Proto oan and Parasitic Infections

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Farathyrod m t pathologosal nd eti sogical sociation P F Mon. c. Am. J Roentge 1 1935 xxx.
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# International **Abstract of Surgery**

Supplementary to

Surgery, Gynecology and Obstetrics

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# INTERNATIONAL ABSTRACT OF SURGERY

APRIL 1934

# ABSTRACTS OF CURRENT LITERATURE

### SURGERY OF THE HEAD AND NECK

### HEAD

Friez P Habitual Dislocati n of the Temporo manifary Joint Without Fi ation of the Jaw (Les i cons habituelles as a blocage de l'articu l'ton temporomaxillaire) Thesis of Pans. Abst by Puppe I resse méd P out al xofe

Ifabitual dislocation of the temporomauliar, joint vishout faxion of the jaw occurs most fre quently in young persons particularly gets it is probably due fundimentally to larty of the lagments and the joint capsule and possibly also to intera articular malformations. Particularly after traumatism it may be aecompanied by crepitations and pain I be condyles may become dislocated on one or both sides but are returned to the glenoid fosses without off culty.

As the condition is relatively beingn the treat ment should be simple constitus of such measures as the weiting of an elastic support for a consider able period of time or intra muscular injections of alcohol. If I W POOLE MD

### EYE

I agrange H The Diagno is of Iridociliary Tuber cul i B ; J Ophik 933 0 9

Whough early in estigators considered indocid are tuberculos a primary infection it in owgene ally believed to be always secondary. Therefore the presence if a primary forcis must be demonstrated before such a diagno is can be made 'a primary infection can often be found in the cheat There is frequently a hist ty of repeated attacks of the presence of the many cases cellib made rocat per fixed in many cases is cellib made rocat for its many cases. The properties of the presence of a term to focus to a set tackycar is an increased at the blood producing are tackycar is an increased at the blood producing are tackycar is an increased as the presence of tuberculosis in the presence of tuberculosis in the desire tract. The presence of tuberculosis in the desire tract ones joints or himph to system should be in vestigated larious newer immunological tests are

Woods A C and Burky E L TI e Possible In fluence of Immunological Factors in the Production of Cataract 1 J Ophth 1933 xv1 951

Lens protein consists of at least three different proteins exclusive of the capsule and is whole organ specific rather than species specific. The alpha fraction has the strongest reactions and that are inhibited by the presence of the other fractions. The possibility of calaract production by immuno olgical procedure is controversal. It has been seen only in the young of treated mothers possibly be cause the embryonic lens cansule is more permeable cause the embryonic lens cansule is more permeable.

A small percentage of cataractous individuals may be hyperseasitive to lens protein before operation After operations involving capsulotom, a larger percentage develop a cutaneous sensitivity to lens protein presumably from the sensitiving effect of their on lens protein. No definite statement can be made as jet with regard to the possibility of physiochemical or immunological frictors in the etiology of sendle cutaract. Suurger & Dr. 2 M D.

### NOSE AND SINUSES

Well W. A. Macal Papilloma With the Report of a Ca. With an Enormous Nasopi aryngedi Fx tension. La v. g. p. 1913 xl. 9 8

The author states that populoms of the nose is extremely rare not more than no authentic cases having been reported in the literature to date. From his study, he concludes that many tummer, the populomata cannot be classified as such. In the large populomata cannot be classified as such in the companying the cells are of normal type and there is a sharp demarcation between the throus and epithenial elements. Clinically in said papilomata are of z is tract types (1) those of the critical commercial type which are generally single and curemershed and (z) pullomata situated deep in the fossa and in olving the sanues which are generally

multiple Nasal papillomata cannot be classified definitely as either benign or malignant they are intermediate. In the author's opinion those of the deen type always contain the seed of malignancy

Wells reports the case of a man seventy years of are who had had a pasal papilloma for twelve years The diagnosis was made by bionsy and on removal the tumor was found to arise from the ethmoid area The antrum was probably also involved irradiation before removal did not result in any an preciable diminution in the size of the fumor but because of the fibrosis resulting from it the bleeding which occurred at the time the peoplasm was re moved was much less than that occurring at the time of the bionsy The author believe that \ ray treatment is beneficial and indicated in all cales

### TANKS C REASSETT M D

### HTHOM

Nicolini R C. Treatment of Cancer of the Tongue (Tratamient d 1 cancer de la lengua) Semo a med 1933 zl 973

Nicolar reviews 2 Series of forty three consecutive cases of cancer of the tongue from the chinic of Acce. In 60 per cent the location of the lesion was anterior dor olingual in 20 per cent posterior dorsolingual and in 20 per cent infralingual. From 10 to so per cent of the lesions were in the early operable stage of limited growth from 22 to 24 per cent were infiltrating and pear the limit of operability and from 64 to 66 per cent were advanced and money

Clinically demonstrable adenonathy was present in 74 per cent of the cases of dorsolingual erowths or per cent of those of postenor dorsolingual growths and 88 per cent of those of infralingual growths It was bilateral in 26 per cent of the first group 36 ner cent of those of the second and 44 per cent of

those of the third. Surrical treatment of cancer of the tongue must he radical The extirpation should extend well bewand the limits of the disease and should be done with the electric cautery kmie. Three routes of approach are employed the oral the suprahyoid and the transmaxillary The route through the month is it ed most commonly. When the exportine by this route is insufficient an incision may be made into the cheek. The lateral suprahyoid approach through the foor of the mouth may extend into the pharvnz. This route of approach greatly facilitates removal of the involved glands transmamiliary route is employed only in extensive cases especially those with involvement of the reground buccal or pharyngeal mucosa

Local anesthesia with preliminary hypodermic narcosis is usually sufficient for the operation

After the operation large doses of radium and \ ray irrad ation should be given Even in cases of extensive lesions radium uradiation cannot com pete with proper local operation performed with the electric cautery kmie supplemented with block dispertion of the remonal clands. Radium tradation alone cannot accomplish as much as survey and radium irradiation together when the disease has not reached a hopeless stage of infiltration

Of the forty three patients whose cases are to viewed by the author four received no treatment and four were given only pulliative treatment. Of the 24 given curative treatment eight who was treated between the years from 1020 to 1026 and four who were treated in 1028 are now well One nament has been free from recurrence for a h year Five patients died and fourteen cannot be BRIDGE R. MEETER M.D.

### PHARYNY

Sahnder S and Pearlman, S J Hamorrhage from Pharyngeal and Peritonsillar Abstract Report of Cases a Résumé of the Literature and a Discussion of Ligation of the Carotid Arch Or laryngol 1933 Kyn 464 Arters

The authors report 10 cases of severe spontaneous hamorrhage due to throat infection. In a case ligation of the common carotid artery was done and recovery resulted In the 6 others all of which were

fatal caroud ligation was not done

Infection of the parapharyn cal spaces is usually blood borne through thrombosed veins leading from the tonsillar plexus to the tissues external to the muddle constrictor muscle From there the infer tion may spread to the submanillary gland the carotid sheath and the parotid spaces Such a spread was found in many of 227 cases coming to autonsy Of go cases in this group involvement of the internal carotid artery was found in an erosing of the external carotid artery in a crosion of the common carotid artery in o and involvement of other vessels in in There were 6 deaths due to erosion of the arteries. These findings demonstrate the advisability of early ligation other less drashe

measures being meffectual In an effort to determine the dangers of bigation of the common carotid artery the authors reviewed the literature of the past century. They concluded that 25 per cent of all heattons of the common carous artery regardless of the patient size or allment are accompanied by serious cranial complications at least one half of which pro e fatal However sace other factors such as sepsis shock and acute anamid account for a certain number of the fatalities ther believe that in cases of serious or recurring hamor rhages the dangers of ligation are less than those of non intervention JAMES C BRASWELL M.D.

### NECK

The Chnical Aspects of Bran bisl Ball y H Fistulæ Brit J S & 913 XXI 173

After a discuss on of the various theories and symptoms of branchial fistulæ Balley de-cribes the technique of complete extirpation of the tract Lipiodol is first injected into the fistula and the ex

ternal opening closed by a pursestring suture. The skin is then incessed and the fistual freed as high as possible through this opening. Another incision is then made higher up in the neck and by under mining the skin the tract is brought out through the second incision. This allows better exposure for complete extiration of the fistual. The author calls attention to the fact that frequently the vagus merce is adherent to the wall of the tract

SAMUEL PERSON M D

Greene E. I. and Greene J. V. The Validity of Present Criteria for the Diagnosis of Carotid Body Tumor. Am. J. S. rg. 1933. x. u. 521

The authors have found 196 cases of tumor of the carotid body reported in the literature Because of the ranty of the condition a correct pre-operative diagnosis was made in only 20

Duning the past twenty five years the frequency of diagnoss his increased. According to the studies of Keen Blevan and Rankin the tumor occurs in the region of the Iduraction of the acrosid artery at first under the border of the stemochelomastical control of pulsation and an up and down (non-expansic) pulsation and an up and down (non-expansic) pulsation transmitted from the stemochelomastical control of pulsation and the stemochelomastical control of the stemochelomastical co

The authors report a case of branchial cyst mi taken for a tumor of the carotid body. The patient who was twenty four years old complained of a painless non tender mass in the neck of four months duration Soon after its discovery (it was first noted by a relative) the mass grew rapidly for a month When it reached the size of a ben's egg it remained practically stationary. It was on the right side in the region of the bifurcation of the carotid about on a le el with the upper border of the thy roid cartilage and was partly covered by the sternocleidomastoid muscle Its posterior portion was underneath the muscle. The skin over it was unchanged and freely movable. The tumor was oval smooth frm and elastic and showed no evidence of fluctuation. It was freely mo at le from side to side but immovable up an I down There was a distinct transmitted but non-expansile pulsation but no thrill or bruit There were no other palpable glands in the neck The right pupil was smaller than the left and pressure on the tumor promptly dia ed it. In addition the phenomenon of hippus was noted This was of erved particularly when a strong light was thrown into the eves when a rapid rhythmic contraction and dilatati n of the pupil occurred The general physical examination and the laboratory tests were therwise ne atme

Operation was performed under local anaesthesia. On export the turn r was found to be gravish brown and elast c and to he a thick capsule. It

was adherent to the surrounding structures and numately attached to the carouid arter. When it was completely shelled out it was found to be a branchogenette cyst filled with a yellowish brown soft thick liquid material showing large quantities of cholesterol in the form of crystals. The wall of the cyst was lined with thick squamous epithelium with naudlary projections

A pre-operative differential diagnosis between branchial cyst and tumor of the carotid body is of great importance as the removal of branchial cysts is comparatively easy whereas the removal of a caroud body tumor is difficult. The difference in the mortality and morbidity in the two conditions is also The authors suggest aspirating the con striking tents of the tumor through an 18 gauge needle If the tumor is cystic and the contents show cholesterol crystals a diagnosis of branchial tumor is established After aspiration of the cyst an opaque substance may be injected and a roentgenogram made. If the tumor is solid material may sometimes be aspirated G PAUL LAROQUE M D for biopsy

Pflueger O II The Treatment of Neck Glands in Cancer of the Lip Tongue and Mouth Cal for a & West Med 1933 xxxxx 391

The first undertaking of the Cancer Commission of the California Medical Association was a survey to determine the opinions of authorities regarding the diagnosis and treatment of cancer

With regard to the treatment of the lymph node area in cases of lip and utra-oral epitheliomata a consulerable difference of opinion was found. With regard to the treatment of the primary lesson it was possible to reach agreement by suggesting alternate acceptable methods those preferring one method agreeing nevertheless that other methods are acceptable. Agreement was reached also with regard to the care of palpable lymph node metastases in the consensus of opinion being that adequate surgical removal opinion being that adequate surgical removal opinion being that adequate surgical removal opinion of the neck should be petformed in the absence of palpable glandular metastases agreement could not be reached.

One group of authorities maintained that in cancer sufficiently advanced to suggest the presence of metastases for example lip cancer in which invasion has reached the underlying muscle the gland bearing area should always be cleaned out surgically even when no glands can be felt while another group were equally certain that prophylactic irradiation of the lymph node area with carful observation of the pit tent and dissection of the neck if a node becomes palpable will give equally, good results

In the face of the an irreconcilable difference of opinion the Commission undertook to ascertain the present-day practice of cancer authorities throughout the worl! This article is based on the replies to forty questionnaires ent to surgeous rad ologists dermatologists and cancer clinics in Europe and America.

These replies show that there is disagreement throughout the world although there is now a definite leaning toward conservatism in the absence of palpable glands

#### CA CER OF THE LIP

I Glands not pulpab e a In cancer of the lip of a size or duration or showing microscopic evidence of deep invasion sufficient to suggest the possibility of metastasis two-third of those replying to the questionnaire do not perform a routine dissection of the lymph glands (twenty versus ten) In other words two-thirds maintain a conservative attitude

b Of the group which maintain a conservative attitude approximately two-third give prophylactic irradiation to the cervical glands (fourteen versus six) This is done either by \ ray irradiation or the

use of radium packs or both

c Of those who perform routine dissections of the cervical glands prophylactic irradiation is given by practically none However it is given by some if microscopic evidence of glandular involvement is

d The operation most commonly performed when the glands are not pulpable is a bilateral suprabyoid dissection If glandular involvement is found on

microscopic examination the dissection is carried out farther in some instances

2 Glaids palpable a In cases of cancer of the lip in which the glands are palpable and operable (movable hard and not involving both sides to the clavicle) the neck is dissected by far the greater number of the surgeons Only two of those replying to the questionnaire depend entirely on arra hation in the treatment of glands in olved by metastasis

b Irradiation in some form is usually given Only 6 of the authorities replying to the questionnaire gi e no irradiation whate er if the glands ha e been compl tely removed. Irradiation is divided about equally into postoperative irradiation alone and combined pre-operati e and postoperative irradia tion. Only four of the authorities questioned limit themsel es to pre-operative irradiation

a Two of those replying to the questionnaire stated that they perform a d: section if the gland do

not disappear following irradiation d Slightly more than one third of those questioned

attempt to distinguish between bard (metastatic) and soft (inflammatory) glands and withhold surgical dissection if the plands are believed to be merely inflamed

### CANCER OF THE TONGUE

r Glands not palpabe a In cases of cancer of the tongue in which early metastatic involvement is suspected approximately two-thirds of those reply ing to the questionnaire do not perform a di section of the cerv cal glands when none of the glands 1 palpable (nineteen versus ele en)

b Of those not doing a routine dissection almost all give irradiation to the hymph gland area (fifteen versus one three give irradiation sometimes)

e Of those who do a routine dissection abor half give prophylactic irradiation to the neck (us versus five)

d The most common operation is unila eral block dissection to the clavicle. However some surgeons perform a bilateral block dissection and others a unilateral block dissection with suprabyoid dissection on the other side

2 Glands palpabe a In cases of cancer of the tongue in which the glands are palpable and operable by far the greater number of those replying to the questionnaire perform a neck dissection. Only three depend entirely on urad ation for treatment of metastatic cancer of the cervical glands

b Practically all give irradiation of some type when surgery is done for palpable glands. Only four give no itradiation when operable glands are com

pletely removed

approximately one half of those giving it radiation limit themselves to postoperative irrada tion The others use both pre-operative and post operative irradiation. Only three limit themselves to pre-operative irradiation

Two-thirds make no distinction between hard

and soft glands

### CANCER OF THE BUCCAL MUCOUS MEMBRANE

f Gla ds not palpable o In cases of cancer of the buccal mucous membrane of suff cient size and dura tion to suggest metastasis to the cervical glands three fourths of those replying to the questionnaire do not dissect the neck when the glands are not palpable (twenty two versus seven)

Of those who do not perform routine cervical dissection the majority give prophylactic irradiation

(nineteen versus three) When routine dissection is performed prophylactic irradiation is usually not gi en.

d The operation usually performed is a unilateral block dissection but about 30 per cent of those re plying to the questionnaire limit themselves to the

upper cervical glands

2 Glasds palp ble a In cases of cancer of the buccal mucosa which is operable and in which palpa ble glands are present the greater n mber of those replying to the questionnaire perform a neck dissection only three depending entirely on irradiation.

When operation is performed for palpable operable glands most of those questioned give irradiation in some form as part of the treatment.

Only four do not use irradiation

c The type of irradiation is equally di ided between postoperative irradiation alone and a com bined pre-operative and postoperative irradiation. Three limit themselves to pre-operative irradiation. JOSEPH K 1 RT VED

### Cattell R B Thyroid D sorders in Childhood 1 co Enda d J 31 d 933 ccs 867

In regions where goiter is endemic disorders of the thyroid in childhood are common and without proper treatment become senous Approximatel 1 per cent of the patients with thy roid disorders who come to the Labey Chine Boston are children under thirten years of age. In many respects the conditions presented by these children are smillar to those presented by adults. They differ however in the fact that they represent arrests and changes ocurring in embryological development delayed growth and mental retardation rather than degen entire changes.

Thy nod disorders in infancy and childhood may be roughly divided into those that are of develop mental origin those that are fluency and the office of a recolvative type. The authors suggests the following general classification (1) developmental disorders (2) retrients (3) collod or endemic gotter (4) hyperthyroidism (5) inflammation and (6) tumors

It is commonly accepted that throeglosal cysts suuses and fistula are more frequent in infancy and childhood because they are of developmental origin but of more than eighty patients treated for these conditions at the Lahey Clinic only 12 per cent were under tenty, 2 ears of age off three children under ten years of age of these children under ten years of age of the children under ten years of age of the children under ten years of age of the children under ten years of age.

Colloid goster is the most frequent disorder of the thyroid in children Therefore every physician deal mg with children should be able to give advice con cerning it Children of gostrous parents seem to have a predisposition to this form of thyroid en larrement

In regions where coilod goster is endemic the administration of small amounts of ioidine is a very effective method of preventing the condition but the author believes that in regions where colloid goster is not frequent the administration of iodine as a general practice is not to be recommended as a well balanced diet should furnish sufficient iod ne for normal thyroid function.

I many hyperthy outsime or esophthalmic gotter is not uncommon in children. I revious to 1032 forty five children inteen years old or younger were treated for the disease at the Labev Chinc. In children the basal metaboli m is not all 33 s reliable for diagnoss but all of the primary and most of the secondary, chinical signs and ymptoris may be present it; a rather ge erall believed that children present it; a rather ge erall believed that children and young the present the secondary chinical signs and ymptoris may be present it; a rather ge erall believed that children and young the children and young the present it is not to be open and children to the present it is not to be present it in the present that the secondary is not the present that it is not to the present the present that it is not to the present the present that the present the present that the present the present the present the present that the present the present the present that the present the present the present the present that the present the presen

Ther id adenon a is a rare finding in children. The auth ha seen it only three times. The had gs re fentical this those in adults. The treat me to die ted, tun age s sur-ical removal.

The eases of carein ma of thyroid or gin in chil dren ha e been beer to at the Laher Clinic

ELLA M S LHONSEN

Dodds E C and Robertson J D The Clinical Applications of Dinitro O Cresol La et 1933 ccxxv 1197

The authors previously reported the occurrence of an increase in the basal metabolic rate in both man and animals following the administration of dinitro-o cresol They have since found it possible to maintain the metabolic rate at from 30 to 50 per cent above normal by the means without untoward symptoms. In a case of untreated myxordema the administration of dinitro o cresol raised the meta bolic rate as high as +74 but did not affect the redema whereas the administration of thyroid extract resulted in complete relief of the symptoms These facts indicate that metabolic stimulants such as dinuted a cresol are of no value in the treatment of myxædema and that the relief of myxædema and the power of raising the metabolic rate are two sepa rate functions Both of these functions are posse sed M HERBERT BARKER M D by thyroxin

Bea er D C and Pemberton J DeJ The Patho logical Anatomy of the Liver in Exophthalmic Golter in I i Med 1933 u 687

This article is a statistical analysis of the pathological anatomy of the liver in 107 cases of evoph thalmic gotter. The climical condition leading to fatal termination of the disease is not stated. The presence of acute changes in the liver was found in 0.5 per cent of the cases. This is interpreted as without definite relationship to the thyrotous process. The livers were somewhat smaller than normal easily the control of the cases. The livers were somewhat smaller than normal about 15 per cent of these the chronic changes were mild. Jaundice was present in 21 per cent of the cases. The authors think that the hepatic changes are related not only to the hipperthy rout state but also to the tone, factor in exophthalmic gotter postulated by Flummer. Part Stars M D.

Stevenson R S The Treatment of Tube culosis of the Larynx  $\mathcal{B}$  t If f 1933 u 960

Tuberculosis is the most common of all specific infections of the larpat. Sir St Clair Thomson states that I out of every 3 patients with active phthiss has a lary ngeal lesion. Since tuberculosis of the larpat is never primary in the larvat but the state of the patients of the largat is never primary in the larvat but cuberculosis of the langar is treatment on the pulmonary lesion will usually be associated with improvement of the lesion in the larvat. The treatment of the pulmonary lesion is therefore of prime importance.

During 1932 the author had under observation 320 patients ith laryngest utherculosis Thurty eight were clinically cured 101 showed improve repett 8 showed in ordings the cond timprove the three thre

value of various direct and indirect therapeutic measures On the basis of 40 cases he concludes that artificial pneumothorar is usually of great benefit of the 40 patterns treated by this procedure 26 showed miprovement or were cured 8 showed no change the condition of 5 became worse and it died. The author reviews also 9 ca es treated by phremion ener e avulsion and cases treated by thorsophasty

with resulting improvement. The chief factor in local is of early largued in The chief factor in local is of early largued in not expected at once. In choose cases and when a painless tuberculom as present selence is of less benefit. If there is no improvement in six months other methods of treatment must be considered. The great majority of the authors sanatorium cases are treated only by ocal rest in addition to the sanatorium regime. Stevenson tends to use the galvanocautery le sandle is the employs it chiefly for disphagia caused by a small ulcar Under indirect larguegocopy the sharp pointed so or points. The pain is relieved almost immediately by this procedure.

General exposure to carbon are light as beneficial only to cases of early larynees tuberculous in me tients with a good physique and with only a stable pulmonary lesion. In advanced cases it is of ea value and may even be harmful. Of the author . 6 nationts who were treated by artificial sublishes plied into the larynx perorally 5 showed market improvement. The weekly application of chart monera oil was found to be southing but without curative effect. Lactic and (so and too per cent) was of considerable benefit in interated lesions especially when the enveloting was involved. Teacher atoms is indicated only for the relief of studer. The author has observed only I case in which it was necessary. The simplest method of controlling name is the intralaryngeal insuffiction of equal parts of nethoform and anasthesin. Pain caused by a small localized ulcer may be relieved by cautenzation In advanced cases the superior larrageal nerve may he blocked with a solution of a gr of eucaine hidrochloride in 1 oz of 80 per cent alcohol or may be resected

The article has an extensive bibliography
ARTHUR S W TOUROUT MD

### SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Torkildsen A and Penfield W graphic Interpretation Arch A r l & Psychial 1013 III I I

The authors constructed a model of the human cerebral ventricles after a study of over 400 selected cases of ventriculography or encephalography and careful dissections of the brain. They believe that the terms anterior horn body and posterior horn are vague and not sufficiently descriptive to make ventriculographic interpretation a relatively simple procedure. They divide the lateral ventricle as seen from the side into 6 portions and show how each portion can be readily recognized as a separate unit in anteroposterior views (Fig. 1)

Shado 1 (Fig 2) is thrown by the anterior horn as it passes forward and downward. Many observers have been misled believing that the darker shadows os 2 and 3 represent the anterior horn This may have been due to an attempt in the development of the roentgenograms to intensify the darker shadows



Th later 1 tricle d'aded into 6 portions which rasblasuntsmanterptnra d tted horiz ntall seer t poject P tions i 2 and 3 n an im gin ry pl t Thes lines no ld be appr i mat ly parall I with the b se of the sk II



Fg 3 Outlines of P rt on 2 a d 3 m an anteroposnrıw

Fg 3 Sperposto of ntricular shad w in an a trpost n rplate



Fig. 4 Ventricular model in an anteroposterior plate

obliterating Shadow 1 entirely Shadow 2 renre sents the portion of the later ventricle situated in front of the thalamus and posterior to Portion 1 It is hounded laterally by the inner surface of the caudate nucleus and medially by the septum pellucidum Shadow 3 is due to the total length of the upper portion of the body of the ventricle It always appears darker than the other shadows be cause of the long air space combined with partial overlapping of Portions 2 and 4 Shadow 3 is bounded laterally by the body of the caudate and above by the corpus callosum Shadow 4 is produced by the posterior portion of the ventricle which curves backward downward and laterally Shadow 5 is produced by the posterior horn and is not found consistently because the posterior horn may be lacking even when the ventricles are normal It usually appears as a dark circumscribed shadow which is superimposed on and lies between Shadows 4 and 6 projecting somewhat medially Shadow 6 represents the inferior born When the occuput is up it may be invi ible because of the pooling of fluid

As the general side outline of the lateral ventricle follows that of the skull a ventricle of a brachy cephalic skull is shorter and more sharply curved than a ventricle of a dolichocephalic skull. In gen



Fg 5 Superposit of vent cular had w in a post ro ant n ni te



F g 6 \ ntricular mod l in a postero-anteno view

cral the lateral ventricle outlines the thalimus be tween its body and the inferior horn. The variety notich seen between the body, and posteror horn in the variety of the posteror horn is not to be considered an abnormality. The outline of the foramen of Moorro is usually seen at the posteroinderior angle of Potton a of the lateral ventile. The third and fourth ventricles with the aqueduct of Sylvius are usually seen east.

The authors conclude that such an analysis makes the detection and description of ventricular changes a relatively simple procedure

ROBERT ZOLLINGER M D

### Foster J M Jr and Prey D Craniocerebral Injuri s Am J Surg 933 H 4

The results of treatment in two ser es of cases of craniocerebral injury are compared. One series was treated by supports e expectant treatment in 027 and the other by the modern deby dration treatment in 1932 The only difference of importance between the two groups of cases was the fact that in the second group 8 per cent more of the patients were unconscious on admission to the hosp tal and on the average remained unconscious three times as long as the patients in the first group. The cases reported were those showing \ ray e adence of skull fracture or blood in the spin I fluid or both Cases in which death occurred before these diagnostic procedures were carried out were proved at autopsy. Those in which death occurred in the receiving room were not included in the study In 1927 the total mor tahty was at 5 per cent and in 1932 18 3 per cent The survival period of patients who eventu lly died was nearly twice as long in the toga series as in the 1027 serie f ca es If a correction is made for three cases in the latter series in which death would prob ably have occurred f om concomitant injuries the mortality is reduced to 24 6 per cent

First to be considered in the treatment of these cases were supportive measu es with e tensive use

of intravenous therapy Roentgenograms were not taken until all evidence of shock had disappeared In the later series of cases efforts were directed toward combating cerebral cedema and increased intracranial pressure after the initial period of shock. This was done by (1) repeated spinal p ture (2) the intravenous administration of glumos solution (3) the limitation of flu ds and (4) the administration of magnesium sulphate by mouth or rectum In the presence of increased pressure at the initial spinal puncture an amount of fluid was removed sufficient to reduce the pressure by more than 50 per cent and subsequent spinal punctures were repeated at intervals of from eight to twelve hours according to the blood pressure findings the pulse rate and the spinal pressure readings. There after in cases with gross blood drainage was con tinued until the fluid became grossly clear. Hyper tonic glucose was used to reduce shock and combat increased intracranial pressure. From two to four doses of 50 c cm of a 50 per cent solution of glucose for from two to four days were usually sufficient. The fluid intake ranged from 300 to 1000 c.cm. per day and averaged Soo c cm It is important to guard against too great debi dration as this may do more harm than good. When the pulse rose to over 120 flu ds were given freely. In order to obtain the maximum effect magnes um sulphate was ad ministered orally or by rectum an hour or so after the intravenous injection of the glucose

Operative procedures were carried out infrequent ly The authors believe they are indicated primarily in compound fractures and cases of extradual hemorrhage John W. Erro. M.D.

### Jefferson G. The Treatment of Acute Head In juries Br t M J 933 n 897

The author analyzed the cases of 1 00 convex ive, nations with head input, who were treated it the Manchester Royal Informacy and Salford Royal Moputed. The headed of the 122 fatal cases in who the treated of class with the trace of the cases of the death occurred with in twenty four hour in 60 per cent and before the nod forty-teght hours in the next largest in wher indicating c tensi e dismage in a high proportion of the cases. Jefferson believes that a certain primary mortaint is una o dable but that many of the late deaths may be pre ented

He classifies cases of head myury into a groups on the basis of suppor rather than accord no live endences of fracture. Group A includes those of pat ents who are deeply unconscuous or common with midely dilated pupils and aluggest contail for the estimated by the common settlement of the fees of anosis settlements respiration and are dambs. These are the cases with the prim ry more or less fixed unavoidable montains.

Group B includes the cases of patients already recoloring consciousness upon the rarm at at the hoppital. These patients has eno recollect on of the accident but can be induced to answer questions. Often they are in shock and are comiting and rest less Some of them may relapse into unconsciousness with or without localizing signs of hæmorrhage The extradural and subdural hæmatomata are commonly found in this group. If there is any doubt with regard to the presence of intracranial bleeding an ex-

ploration should be done

Group C presents the greatest difficulty in diagnoss and treatment as the patients belonging to it are admitted to the hospital in a state of stupor or emistuper and remain uncooperative and unresponsive for many hours or days. They may move about us bed and examination of the pupils and reflexes is negative. However these patients should be examined often and constantly observed for localizing usins of hermal constantly observed for localizing usins of hermalizing the property of group are often classed as unconscious but progresing satisfactorily and examinations are not done to determine their condition accurately.

The cause of transient traumatic stupor may often be a temporary vascular arrest but contusion and laceration of the brain may be present Jefferson believes that the symptoms depend more upon the part of the brain injured or the site of the clot than upon increased intracramal pressure. A small clot may produce stupor by causing a local reaction since the spinal fluid pressure is often not elevated. The author believes that irritability restlessness in continence and other similar reactions may often indicate injury to the frontal and temporal lobes He cites similar reactions produced in animals by lesions of the under surface of the frontal lobes Following contusion to the speech area producing aphasia many patients are mistakenly considered to be in stupor because they are unable to steak or fail to understand

The author does not advocate spinal puncture or the intra-enous administration of hyperione solutions unless secondary ordema occurs on or after the second or third day. The patients are unconsiderable the brain has been damaged generally and because of ordema. Edema may be benfeld by the intra-enous administration of a hypertonic solution. Intra-enously, administered hypertonic salure solutions may promote intra-enal bliecting by raising the blood pressure and at the same time by shrinking the brain increase the space into which hamorrhage may occur.

The s ndrome from middle meningeal bleeding is stell kno in and recognized but subdural hæma tomatia are frequently overlooked. The author al wais considers the possibility of hæmorrhage in direct temp ral continuou if there is the least sign of direct temp ral continuou if there is the least sign of direct temp ral continuou if there is the least sign of direct temp ral location of the first and the probability of the state of the sign of the state of the sign of the first and the sign of the sig

The jule rate va es greatly A secondary slow pule may develop towa d the end of the first eck r later a d the patient gradually recover However on the whole slow pulse rates are found during the first few hours more commonly in fatal cases than in others ROBERT ZOLLINGER M D

Dott N M Intracranial Aneurisms Cerebral Arterioradiography Surgical Treatment Ed bu gh M J 1933 xl 219

Three chincal type of intracranial aneurism are recognized the ocular paretic type the apoplectic type and the tumor like type

The ocular paretic type is characterized by an in complete oculomotor paresis accompanied by homo lateral frontal headache and is due to small effusions of blood from an aneurism near the circle of Willis

The apoplectic type is characterized by a sudden stroke with partial or complete loss of consisions ness for a period of time subsequent signs of cerebral compression and metungeal irritation with or with out cranial nerve paralys as and focal cerebral signs and the presence of blood in the cerebrospinal fluid removed by lumbar punctures.

The tumor like type is characterized by sighs of compression of adjacent structures particularly the optic nerves and chiasm the clinoid processes and

the adjacent bone

In the ocular paretic type carcinomatous invasions of the base of the skull from the nasopharinx involve the abducent before the oculomotor nerve In the apoplectic cases the fact that the patient is usually young and healthy serves to differentiate the condition from cerebral thrombosis intracranial hamorrhage and meningitis. In both of these types an accurate localizing diagnosis can be made by arterioroentgenography In cases of tumor like aneurism the clinical diagnosis allows only the in ference of a progressive swelling in a certain situa tion and the differential diagnosis can be made only by operation or arterioroentgenography. In addition to disclosing ancurisms arteriorcentgenography gives information concerning other tumors by the distortion of the cerebral vessel

Ancursms of the basal cerebral arteries are found in about 1 of joe consecutive postmortem examina tions. In many cases they are symptomless and not the cause of death. They are more frequent in the absence than in the p seence of arteriosederosis and symbials. The average age of rupture of the ancursms as thirt way sears but instances of rupture at the 1st there for the state of the second of the state of the second o

An adequate explanation of the local defect in the resset wall has been supplied by recent researches especially those of Forbus In the development of arteries the larger trunks argue re a muscular coat first Later the branches acquire muscular coats as independent de elopments. At the junction of the branch and the arterial trunk the muscle coats meet and tigse but the fusion may be imperfect In apparently normal arteries small de elopmental args constitution definitely weak po nts in the vessel walls are demonstrable. It is significant that all of the saccular aneurisms under discussion were found to arise along the hine of junction of the arteries with their branches. The cerebral arteries are peculiarly thin walled but are especially protected from the force of the pulse by flexures of the main vertebral and carotid trunks ust as they enter the she yet are

The formation of a saccular angutism through a d fective shot in the arterial wall depends mon the blood pressure. In the presence of severe defects in the wall even a normal blood pre sure may rause an aneurism That high blood pressure may cause an aneurism in an arterial function which would other wise have remained intact is shown by the definite association of basal cerebral arrun m with stenoses of the isthmus of the aortic arch In a case of this type the blood pressure in the right arm was 100 while that in the left arm and ler du tal to the stenous was 120 The patient had had everal attacks with signs indi cating an aneurism of the intracranial portion of the left internal carotid artery. Other cares are cited to show the effect of increased intracramal pressure causing the rupture of an angurism. The age at which rupture occurs depends upon the degree of the defect and on the blood pressure. The site of the aneurism is usually in relation to the termination of the internal carotid artery and more frequently on the left side than the right side. Common sites are the junctions at the posterior communicating branch the bifurcation into the middle and anterior cerebral atteries and the origin of the first larg branch from it e middle branch cerebral artery in the bale of the sylvian fissure. Aneurism occurring here are more likely to caus muor or major han orrhages than symptoms and signs of tumefaction and are asso crated with recurrent orbithalmonleria and spontangous subarachnoid hamorrhage. Angurisms at the arrow of the orbitalmic branch from the internal carning and at the nunction of the anterior cerebral and anterior communicating arteries are le s fre quent and produce gas of tymefaction more often

than they cause hamorrhage In the treatment of intracranial aneurism there are a possibilities (1) conservative treatment (a) p oxygal ligation of a carotid artery and (1) the application of muscle fragments directly to the aneurism. In cases of minor hamorrhage a.so crated with ophthalmoplema and headache and ca es of major subarachnoid hæmorrhage arterio roentgenography identines and shows the location of th lesion. If the lesion is proximal to the circle of Willis heation of the carotid artery is indicated Al o in cases eth biting a basal tumor syndrome proximal I gation stould be done If an aneurism is shown by chnical findings or arteriorgentgenography to be d stal to or on the circle of Willis conservative treatment is advisable. In cases with repeated hæmorrhages e pecially at intervals of a few days or weeks the prognosis is gra e the probability of contaneous lealing is slight and direct operation is justified. At operation ligation of a main arterial trunk di tal to the c rele of Willis is impos ible as the

resulting functional loss would be too se ere. The aim should be to form a secure scalledding for distingth of the form as the second flavour security of fragments of muscle the artern being left patern being the case of an aneurum prodon g a thought the second of the

repeated hamorthages occur. Conservat to treatment by rest and the adm no tration of morphin in the cityl days following saugle substanchnoid hamorthage may be supple mented by lumbar puncture. Slow tenoval of the fluid without reduction of the pressure below normal allows the removal of considerable quantities of intrinsing blood. The symptoms of cerebral compression and menuageal irritation may be role and considerable and considerable compression and menuageal irritation may be role and considerable.

Spontaneous and permanent on e may follow conservative treatment. When the patient has survived for several months without further evidence of harmorthage, it is unlikely that the thromboard

aneurism will cause further blee ling
After recovery the patient should be warred
against activities likely to raise the blood pressure
considerably but otherwie should be encourage
to live a normal and active life E S PLAT MO

Lucherini T The Value of Encephalography in the Diagnosts of Prain Tuniors (Il alor dellen falo rafi n lia diarn 1 d t m n cerbrai) P (d Rome 1911 zi sez med 1906

This is a detailed clinical encephalo raphic and pathological study of an endothel oma of the right parietal lobe and a neurofibroma of the crebelopontine angle which demonstrates the value of encephalography in the diagnosis of brain tumors

The best case is reported also as a contribution on the symptomatology of parteal flevious as the growth in the right parteal lobe was associated with a tercegous of the left hand of the right handed patient. All who has elocalized the strengmonte cases in the second part at convolution have noted that the localization is almost always in the left beam phere. In the recent literature acress the beam beared to the contribution of the contribution of the Luchenin has been able to find only one case amilir to this a case reported by Wordd.

In the second case Luch rmi pract ced arteriog raphs successfully without causing untoward symptoms but also without contributing to the diagnosis. The method and the interpretation of the results a e difficult. Arteriography offers no advantages of encephalography.

With regard to the comparative ments of exphalography and pneumy-entreadograph the author states that the question is still open He ruews the controversy between the Americas sci ool represented by Dandy and the German school respectated by Bong! He states that the extreme casy and simple techin que of Bingel which does not expose the patient to dangerous intervent on be set tainly not comparable with pneumoentriculogra phy which although not difficult is a surgical open.

ton with grave potential dangers. In cases of tumor of the posterior foss a liready dangeosed ventinou lography may be preferred as a measure of prudence atthough if a careful technique is employed the danger in the use of the lumbar route is slight. According to the author is expensed as in interest and the according to the author is expensed as in the lateral ventiles and its failure to do so is in itself a valuable index of abnormality of the arachosod. However ventuculography is a more refined and complete method than encephalography and is of value to supplement the latter. The amount of air introduced by the lumbar route should not be less than 50 ccm but almounts over, of cent are dangerous as come but amounts over, of cent are dangerous.

Fncephalography is of great value Fatalutes associated with it are exceedingly rare considering its extensive use Nevertheless it should be employed with discretion and in the author's opinion should be reserved exclusively for the study of tumors. Its use in conditions in which a clinical diag

nosis is easy is unjustihable

The article is illustrated and has a bibliography M.E. Monse, M.D.

Garland H G and Armitage G Intracranial Tuberculoma J P th & b ct 1 933 xxx u

Of 1 300 consecuts e autopsies performed at the Leed General Infirmary in the period from 1910 to 1911 an intracranial tumor was found in 264 Lighty nine (338 per cent) of the tumors were tuberculous The incidence of intracramal tumor based on the number of autopsies was 2 02 per cent and the incidence based on the number of brains examined 2.45 per cent. In addition to the 80 cases of tuberculoma there were 356 cases of tuber culous meningitis without tuberculoma. The in cidence of neurotubercle in all a topsies was \$ 42 per cent and in all brains examined 126 per cent Tuberculomata constituted 34 per cent of all intra cranial masses 63 per cent of all masses in patients under twenty years of age and 66 per cent of all masses in children Above the age of twenty years their incidence was 17 per cent

In Leeds tuberculomata are as common as glomata and these a tumors constitute 70 per cent of all intracramal tumors. The ratuo of tubercu omata in females and in males is 3. The trennal omata in females and in males is 3. The trennal ownered although creations during the period reviewed although creations during the period reviewed although creations and 45 cases of multiple tuberculoma tuberculoma and 45 cases of multiple tuberculoma. The cretefular was involved in 67 per cent of the cases and the cerebrum in 47 per cent. The most common type of lesion was the sol tary cerebellar common type of lesion was the sol tary cerebellar.

Tuberculous meningitis was the cause of death in about 75 per cent of the cases. Other tuberculous leaions caused death in about 20 per cent. In only 2 cases was death due to increased intracramal pressure and in both of these there was active pulmonary tuberculosis. The fact that there were only a cases of calcafed theoreuloma supported Stewarts statement that authentic cases of spontaneous cure of intracrinal theoreuloma are rare. In both of the cases cited the mass was calcified throughout but in a case recorded by Smith in 1047 the calcification was peripheral Occasionally a calcified mass in the brain is discovered on "an examination Under such circum stances the calcification is usually in the form of a shell It is therefore impossible in the present state of our knowledge to assert positively that such a mass: a tuberculoma or a neoplasm

Dural tuberculoma is uncommon and quite disDural tuberculoma is uncommon and quite distact and in the common and an analyse of the
later and the common and an analyse of the
later and the common and an analyse
probably always attached to the dura mater In z
case cited there was widespread irregular thicken
ing of the entire dura of the posterior fossa including
the undersurface of the tentorium. The degree of
thickening varied up to , in and the plaque had a
yellowinh nodular appearance. This is an example
of the rare condition known as a common and any
local properties of the tentorial properties of the common and the commo

The chief chincal manifestations may be divided into 2 main groups those due to increased intracranial pressure and those due to the presence of active tuberculouss. Tuberculonata tardy cau e symptoms prior to the onset of tuberculonats mentions to the cases are no characteristic clinical manifestations of intracranial tuberculoma but in 90 per call the cases pressure occurs at some stage. A family of the cases pressure occurs at some stage. A family of the pressure occurs at some stage and the cases revised. In occasional cases distantion of the pupils vertigo cough choroidal tubercles and optic atrophy were found. The pull e rate was practically always increased and its rapidity was usually out of proportion to the degree of the pyresia.

The data regarding cerebrospinal fluid changes in cases without meningitis are insufficient for conclusions. As a cerebral neoplasm may occur in a patient who is suffering, from active tuberculosis an accurate clinical diagnosis of intracramal tuber culonia is impossible. The discrepancy between the pathological and surgical incidence of tuberculosis can be explained only by the absence of clinical manifestations prior to the onset of tuberculosis memingitis.

E. S. Part M.D.

### SPINAL CORD AND ITS COVERINGS

Tamaki k Thirty \ine Extrameduliary Tumors
of the Spinal Cord Am J Su g 1933 xxu 397

Of thirty nine extramedullary tumors thirty four were fibroblastomata four were fibromata and one was a neuroma. The tumors are always lateral at the outset but may come to occupy nearly any position in relation to the spinal cord growing as they do in the lines of least resistance. Most of them are intradural but some are extradural and some are dumb bell absped. The vast majority occup; the level between the fourth cervical and sixth thoracce aegments. They show a striking similarity in shape and configuration most of them being elongated and sususer shaped.

Pan as a conspice on your morn and the first one as a per set of the cas you morn and the first one as a more or less defautely located by the properties of the properties of the properties becamplike burning or draining a dull ache neuralize Linde like boring through the declaracter. The next most frequent complaint is particularly affect of the properties burning or draining a dull ache neuralize Linde like boring through complaint is particular. Motor wealness i not a common nitual symptom but may come on early. It is generally first noted in the leg of the affected ade but may eventually involve the contralateral and as a rule the paralysis is of the spassic type but at may be faced. About 60 per cent of the cases show submerched eighturbances.

In the cases studied pain of some sort was p esent for twenty seven and seven tenths months parks thesis for seventeen months and motor weakness for sixteen and five tenths months before operation. Thus the common history is that of early localized man followed by paresthe as anathesias and

motor weaknes

The segmental diagnosis is based on (1) sensory phenomena (2) assomotor disturbance (3) symbol attorbance and attorbance and twitchings (5) loss of an individual reflex (6) the findings following the injection of nodzed oil and (7) the findings of dual lumbar punctures (rainthrochromia and increased globulmic content with spanal block.) By nacl cord tumors may be confused with transperse myelitis swringomy elan dimultiple selections in 50 ms. Il Erroy VID

### MISCELLANEOUS

Harris W The Traumat c Factor in Organic Nervous D sease Br i M J 1933 u 9 5

The question as to the causal relationsh p be tween injuries to the head back trunk or limbs and the subsequent development or aggravation of a pre-existing organic nervous di-ease has been reach debated and entirely contrary opinions have been expressed by various authorities. Grave injustice is often done by ref sal in certain cases to admit the po sibility of cause and effect in progres ite nervous disease following trauma We know for e ample that injury to the peripheral neurons pro duces chromol tic h n es n the nerve cell in the spinal cord or posterior root ganglion connected with the peripheral nerve fiber that i injured. This metabolic change called by Marinesco the reac an be recognized on microscopic tion a distance exam nation. It is conceivable that under certain circumstances further changes of a progressi e na ture may result. Since at the present time we know nothing of the pathology of progressive muscular

atroph) it is impossible to state that there is no concer able pathological process by which an mi-sy unaccompanied by an infective process can bree about a general or rapidly fatal dissolution of the nervous system

The author first cites the case of a flying-officer with neurosyphilis who developed symptoms shortly after a blow on the head received while he was mak ing a parachute landing. He next cites the case of a porter who developed amyotrophic lateral sclerosis following a severe bruise of the right foot. The symptoms began immediately after the injury and were first noted in the region involved by the trauma A third case cited was that of a patient who developed the typical syndrome of pitu tars tumor following a blow on the head. At operation an adenoma of the pituitary was demonstrated. In the first case the trauma apparently so affected the ussues as to hasten the onset of symptoms due to latent disease while in the second and third cases either the same thing had occurred or the disease had been actually initiated by the trauma

The author reviews is cases of chronic sclemosa of the spinal cord most of them cases of typical doseminated sclerous developing soon after severe in juries to the back of head. These 16 cases constituted 7 per cent of 34 cases to spinal sclerous tricks will be be soon to severe the spinal sclerous tricks will be force the minury while others had say gest it is improved to the minury while others had say gest it is improved to the spinal conditions to suffer continuous than the spinal conditions had be suffer continuous than the spinal conditions required of improve the properties of the properties of sequel of improve the properties of the properties of muschalar attorious and the spinal conditions of the properties of muschalar attorious and the spinal sequence of the properties of muschalar attorious and tables.

As nerve cells are damaged and then undergo atrophy as the result of nunctiform hamorrhages

and ordenia the autho concludes that in our present state of pathological ignorance it is impossible to assist confidently that such a process of exterted will not organize in some instances even to

to assist confidently that such a process of estarted vill not progress in some instances even to a fatal termination. Armur S. W. Touroff M.D.

Satisfactory results from the surgical treatment of intractable pain require a knowledge of the meth anism involved in the physiology of somatic and visceral pain. Davis reviews the outstanding combinious on this subject.

Section of the lateral di is on of the posterer is nail root or the lateral columns of the white mai ter of the cord will abolish sich somain refere to pain as a ne, in the blood pressure and rip! resp rat on. The experimental study of excess pain has shown that painful respect to the study can be about the painful result of the spindeline can be blood (2) complete train sers section of the cord (4) lateral section to the gray matter and (4) blateral section of the proper numbe of posterior pain troots. Da is states that the en satisfactory results of chordotomy for the relief of visceral pain are due to failure to extend the section into the gray matter. Section involving only the lateral white column (spinothalamic tract) relieves only somatic pain.

The theones explaining the sensition of pain caused by visceral dase as rea discussed. Three of these are mentioned here. Visceral afferent impulses are brought up through the planchnics and white ram to the cord whence they are radiated by way of the senson, tracts to the periphery. He way of the senson, tracts to the periphery lead believes that there is some form of spinal cord uritation which tenders painful all sensory impulses groug through this region. Davis and I ollock assume that visceral painful impulses produce efferent cutantia trusted and which be painful. These somatice effects in the skin which is painful. These somatice randial time the carried to the cord and to conscousees over the self-known somatic affecting nathous we.

theory agrees well with the recent reports of relief from the subcutaneous injection of novocain in a peripheral area such as the relief of anginal pain by the subcutaneous injection of novocain in the left arm

There is no doubt that the symputhetic system has an important role in the mechanism of pain production. From an experimental study of the cervical sympathetics the author comes to the conclusion that the stimuli go by way of the sympathetic parallel study of the terminals (blood vessels etc.) from whence is the terminal terminals (blood vessels etc.) from whence is the terminal terminals (blood vessels etc.) from whence is the terminal terminals (blood vessels etc.) from whence is the terminal terminals (blood vessels etc.) from whence is the terminal terminals (blood vessels etc.) from whence is the terminal terminals (blood vessels etc.) from whence is the terminal terminals (blood vessels etc.) from whence is the terminals (blood vessels etc.) from the

In conclusion Davis cites a case showing total loss of sensation after section of all of the posterior roots to the upper extremity

BENJAMIN G P SHAFIROFF M D

#### SURGERY OF THE CHEST

#### CHEST WALL AND DDVACT

Moscheowitz & & Vestigial Mastitis 4 tota ve m 8 e

Moschcowitz describes vestigial mastitis as a namful cord like structures extending in a line from the axilla by way of the nipple to the symphysis. He believes that these cords are inflamed parts of an abnormally persistent milk ridge of the embreo He reports six cases in one of which bioosy sections were made SAMERI PROLOTE M.D.

Eberts E M Padet a Disease of the Nipple I te at Cls cs 033 1 102

The author attempts to show that Paget's disease of the more is not or marrly endermal, but begins as a cancerous perversion of the columnar enithelium of the ducts and that in all cases the only treat ment which is in tiliable is radical amoutation of the breact

Clinically Paget's disease is a chronic unilateral affection of the nipple and areola resembling in some respects eczematous dermatitis, but resistant to all local treatment. Periodic bleeding from the monle may occur. With the appearance of the enidermal erosion there can be detected on careful nalpation a cordlike strand extending from it in to the breast In clinical sequence the third stage is that of lymph gland involvement

The conspicuous and characteristic microscopic feature of the Paget's lesion is the presence in the malnightan zone and especially in the hasilar laver of the endermis of large pale cells occurring singly or in clusters which with Masson's triple stain and under low magnification give to the field a lace like appearance Beginning with the penetration of the basilar layer of the epidermis the Paget cells con time to drift toward the surface where ultimately they appear as rounded bodies even between the cells of the cornified stratum with which they are shed

The most common affections of the nipple from which Paget's disease must be differentiated are (1) simple eczema occurring at all ages and involv ing usually not only the nipple but also the whole of areola as well and sometimes the greater part of the skin of the breast (a) a fis are of the mipple occurring during lactation and (3) warts or verruce single or multiple The e papillomatous growths rise above the surrounding epidermis of the nipple They are painless and do not tend to ulcerate

The treatment of all cases of Paget s disease is radical amputation of the breast with removal of the pectoral muscles and the fat lymphatics and lymph glands of the axilla I THORNWELL WITHERSPOON M D

TRACHEA LUNGS AND PLEURA

Buble E H and Newman H S Upper Lab. Bronchiectasis Am J M Sc 023 clary 6:

This article consists chiefly of a résumé of ciebt cases of non tuberculous upper lobe bronchectare which the authors collected from their service and sixteen cases collected from the literature. In addi tion there is a brief discussion of the diagnosis of upper lobe bronchiectasis

One of the striking clinical features of the col lected cases was the h sh average are of the nationic -sixty years In each instance repeated search for tubercle bacilli was unsuccessful. The detailed macroscop c and m croscopic reports are based on autonsy findings

Although in by far the majority of cases of upper lobe bronchiectas s the condition is secondary to Inherculous infection the authors believe that in a few cases the branchiectasis is non-tuberculous. The Chief basis for this assumption is the absence of tubercle bacilli in the sputum

The most constant physical finding and the most helpful diagnostic feature in non tuberculous cases is the presence of resonance above the clayde a finding emphasized previously by Fishberg Other findings are absence of apical shrinkage and a herence between the visceral and parietal pleuts: this point

Although intedel injection followed by \I examination is mentioned in connection with 0 case no particular emphasis is placed on this excee ingly important diagnostic procedure

The authors report also three cases in which u per lobe bronchiectasis developed on the basis an active tuberculous lesion of the lung

FRANCISC P WALTON M D

Pardal R Ferrari R C and Itolz A Ca certhe Apex of the Lung With Associated Tube culous Le ions the Dejerine Klumpke Syr drome and Vertebral Metastasis (Cincer értic pulmo co les ones ornit nies d'tube culosis sindrome de Déjèrine Klumpke y m'tistas rt bral) S'ma a mid 1933 xl, 409

The case reported in this article is the fifth ca: of cancer of the lung with involvement of the spin and coexisting tuberculosis to be recorded. The, was a fibrous tuberculosis of the right lung as we as of the left in which the cancer was situated. A tuberculosis and cancer were present to ether i the same spot both of these lesions could be dia; posed on the same microscopic slide

In certain cases of cancer of the lung metastase spread to the supraclavicular fossa and the costo vertebral angle thus becoming e teriorized I

the case reported compression of the nerve roots and spinal cord produced an inferior radicular pressure syndrome of the brachial plexus (Bernard Horner syndrome) There was intense pain in the region of the ulnar nerve with atrophy of the thenar and hypothenar eminences and paralysis of the in teroses and lumbrical muscle.

A cancer mass was found excavating the pul monary aper and a secondary mass in the supra claricular fossa and costo ertebral angle. The arm on that side showed marked cidema. Secondary growths had invaded the spine completely destroying the first dorsal vertebra and compressing the

cord at that level

From the standpoint of the clinical and anatomical picture of cancer alone only thirteen similar cases have been recorded. Of these eleven were observed in the Ar entine. Tobias calls this condition the painful apocoostovertebral syndrome.

WILLIAM R MEEKER M D

Coquelet The Economic Treatment of Purulent Pleurisy [L. trait me t économique des pleurésies purul nte.) A ch méd-ch de l'appa resp r 1933 viu 289

The promosi of purulent pleurisy depends to a considerable degree upon factors not related to the

mode of treatment Among them are

r The condution of the underlying lung An
autonomous or metapneumonic pleuris; becomes
cured more easily than a putrid pleurial suppuration
developing in contact with a focus of pulmonary

gangrene

2 The nature of the causal organism. It has long been known that the pneumococcus is less deadly than the streptococcus and that the streptococcus is less deadly than the anarrobes.

3 The general condition of the patient A person with diabetes alcoholism or a cardiac condition is les likely to recover from purulent pleurisy than an otherwise healthy person Age is also a factor. The mortality of purulent pleurisy is high in infancy, and advanced age.

In a comparison of the results of different methods of treatment a beternological classification of the cases is of secondary rather than primary importance. Of most importance is a classification based on the associated lesions of the underlying ling and the patients general conduction and are

The author gives a brief re 'lew of the hi tory and a description of the various modes of treatment

In his opinio the factor primarily responsible to the high mortality and the presistence of chronic suppurating cattles is the occurrence a d manner here pobut the period of drainage of an open pneumothorax. Various methods to prevent this pneumothorax have been suggested and have been used from time to time but have not received general factor.

In 1918 fter the influenza epidemic Netter re ported that in purulent influenzal pleurisy early pl u otomy h d a mortality of 81 per cent During

the war the mortality was shown by some statistics to range from 40 to 50 per cent and by others to range from 84 to 92 per cent

Coquelet concludes that open pneumothorax causes asphyxia by the following two mechanisms:

A Hindering the entrance of air by way of the lary nx

lary nx
2 Causing ano semia by favoring the mixture of venous and arterial blood (the phenomenon of Spehl and Dautrebande)

Is long as the mediastinum is not stabilized by adhesions the normal long suffers from an open pneumothonax almost as much as the collapsed lung A patient can tolerate thoracie section in direct proportion to his vital capacity. As long as the musculature is strong and resistant there is a possibility of compensation.

Of the various procedures the author prefers closed dramage. By some lavage is believed to be associated with the danger of dissemination of the infection. However this danger is avoided if the lavage is carefully done regularly and with complete evacuation of the irrigating fluid and the use of a non irritating solution such as dilute Dakin's solu tion. It has been stated also that lavage may give rise to undesirable reflexes attacks of epilepsy hemiplegia and cerebral apoplexy and that it may even cause death. These accidents occurred chiefly before the era of strict antisepsis and more refined technique Today they are rare and need not be feared if non irritating fluids at body temperature are used and if the amount does not exceed 100 gm at the most and is reduced as the suppurating cavity retracts

To prevent chromic purulent pleurisy Coquelet recommends an operation which permits re expan sion of the lung as soon as pos tible. This may be achieved best by the early use of closed drainage followed immediately by exercise and respiratory gymnastics.

In the presence of tuberculosi or a superimposed infection it is imperative to operate without open pneumothorax

Another factor leading to chronicity is the presence of a bronchopleural fistula. Bronchopleural fistula are more common than is suspected. They dose quickly (in one or two months) after closed drainage provided they are not filled with find and are not disted by too energieic respirators, exercises. In the presence of a bronchopleural fistula respiratory exercises should not be started until the cavity has been to diminish in size and the fluid comes back almost clear.

When a chronic empyema cavity, is present the author softens the thick, pachypleursy by irrigating several times daily with Dakin s solution in a concentration which is gradually increased up to double the normal concentration. By proper exerce sa at the control of the control of the control of the The capacity of the red died is volumed if the lang The capacity of the red died loud on the solution and once a week an urritating solution such as sodim can sulphate or phenol is injected to produce able sions between the pleara and thereby maintain the compensatory expansion. Even ery old cases will

respond to this treatment

In the technique used by the author today soft trocars 12 cm long are used. The sheath measures so cm Trocars of two calibers are nece sary one from 10 to 11 mm and one 6 mm in di meter Drains of the proper caliber are kept at hand Both trocars and drains are graduated in centimeters The intervention is very rapid requiring only four or five minutes The level of the effusion laving been determined and a puncture made the optimum point for the establishment of drainage is determined At the point chosen an injection of a 2 per cent solution of novocain is made from the skin to the pleura along the upper margin of the rib with care to avoid the ves el When poss ble the point for drainage is cho en in the posterolateral region. A bistoury with a blade sufficiently narrow to make a skin incision slightly smaller than the diameter of the trocar to be used is then introduced through the anasthetized area The bistoury is then withdrawn and if e trocar introduced into the incision. When the mandrin is withdrawn a jet of pus comes through the tro ar The trocar is clo ed with the finger and a drain of suitable size inserted the sheath of the trocar being withdrawn gently The drain is left in place and clo ed by a pressure clamp like that used to regulate the drop flow in irrigation by the Carrel method The penetration of the drain is re ulated by the centimeter gradation. It need not exceed from 5 to 8 cm As a rule one drain i sufficient but in some cases several drains may be required. The method of fixing the drains and the procedure of drainage are described in detail

Lavage is begun the day after the intervention. The drainage tube is closed and the lavage tube opened. When the desired amount of fluid has been injected the lavage tube is closed and the drainage tube is opened. Up to 100 cm of Dakin is solution may be in sected for impation until the fluid intervention. If the patient coughts and complains of tasting choicine the lavage must be discontinued.

A solution of methylene there is injected into the pleura to determine whether a bronchopleural instula is present. In the presence of a first he the methylene blue will app ay immediately in the

enutuin

Cardua tonucs are administered and the associated paeumonia pre in appropriate treatment. In cases of this pance on speem has be administered through the hose. The haspes is continued for above regit days after the morning irrigation fluid returns clear. The drain is then cut of about 2 cm from the thoracce will and a finger oot attached. This is left in place for a veril days to be sure that the temperature doe not not and that to much pus does not from I fall goes well the drain i remove dat the end of that time but a probe is passed every day to keep the passing open. When the pus has disappeared and the size of the cavity has diminished to a capacity of from 5 to 10 cm. the treatment is discontinued.

for two or three days and the watched for a rise in the temp cumulation of pis. If all is well time the fistula is permitted to c

Before the condution is concured a chined control examinal. If a cavity persists costection obliterate it A secondary costice well tolerated a the patient; and the fixation of the mediasts address the constraints of the mediasts address to the constraints of the conclear it from 150 to 200 c cm of 15 clear it from 150 to 200 c cm of 15 digest the membranes. Persi for digest the membranes. Persi for of the back-secondary non-distancollections of ea e of the under carditis.

The author summarizes the ardrainage as follows

It reduces the mortality
It prevents the development

yema 3 It hinders the entrance of thorax

4 It permits slow escape o shock or violent displacement o or heart.

The technique is simple and

The technique is simple and with the patient in bed 6 Dres ings are few and simp

7 The duration of hospitaliza Epith

Ruetz A The Treatment of (D: Beha dl des Pleur: B ch s h 1953 ti 4 4

Every intrathorance pre-ure of space brought about by a mass, in di-placement of the mediast increases the size of the space striking in the thorax of the creditationum is ery delicate increases the space i further eight the dissphragem.

The d splacement of the media healths side is at first not only med nical pressure of the effus fusion under neg ti e pressure d splacement The cause of the a s cking action of the hea ily bre other side This process is a part t on tendency f the body It the respiratory mo ements of th thorax by the accessory muscles adequate When the compensato thorax ceases the pressure of the to evert its eff it This result the elasticit of the d eased lung ma uten nie f negative pressure a decrease in the air content of the of compression atelectasis or inflammatory paren chymato is infiltration

Operative methods which produce a communica tion between the empyema and the external air result in open pneumothorax and thereby an acute mediastinal shift. The mediastinum flutters and ompromises the circulation in the large venous trunks Filling and emptying of the right auricle are disturbed. The circulation is acutely hindered especially in cases of empyema on the right side The functioning of the thin walled auricle is me chanically inhibited Dilatation of the auricle is di turbed by the failure of respiratory movements There is a congestion of inflow and a poor cardiac flow The most severe circulatory disturbances oc cur as the result of kinking of the inferior vena cava as it passes through the diaphragm. On the left side the well-developed musculature of the left ventricle offers strong resistance to the pressure of the evudate and displacement of the heart does not play so important a rôle However in cases of large empyema the broad surface of contact which the heart presents as it hangs into the left chest favors torsion of the organ and of the great vessels In the treatment of empyema these pathologico

an use usetiment or emperiate users pathological physiological facts must be taken into consideration. An empirema cannot be operated safely as simply as an abserted Operation horizotomy in empressa especially in children has a high mortality modern changes of intrabluoration pressure must be attempted action of the children of the

It is important to determine whether removal of the pus or correction of the intrathoracic displacements is the more important indication. If the general body intorication is most prominent as for example in septic pleural phlegmons and metastatic suppurative empyema consideration of the heart and lungs is of econdary importance The chest cavity must be opened under differential pressure by rib resection and adequate drainage of the pus established. In contrast are cases of meta pneumonic emplema in which the intoxication is not severe but there is considerable danger from mediastinal displacement. In these cases the treat ment must begin with simple aspiration. Twenty m nutes before the aspiration o or gr of morphine is gi en The aspiration is done under local anas thesia. In cases of free effusion the aspiration is done with a large cannula (record syringe) in the seventh intercostal space in the posterior axillary line If pus is found the record syringe is replaced by a suction apparatus (two way control like that of Dieulafoy) The evacuation of from 200 to 500 c cm. of pus is followed by considerable relief of the circulatory and respiratory difficulties. Often a single aspiration is sufficient for cure. The resorptive power of the pleura improves. If the erudate recurs a second a puration is done Only when a town and very febrile condition develops and becomes steadily worse should the method of aspiration be dropped. Then one must decide whether to use open or closed drainage if a long time (two or three weeks) has clapsed since the onest of the effision throncotomy with in reservion is the procedure of choice as the mechanism to the procedure of the control of the mechanism procedure. It is two disadiantages are (if) arrest of drainage 1 plugging of the tube (fibrin formation staph) loccores empy emp) and (2) the danger of a phlegmonous inflammation of the chest wall from leakage around the tube

After preliminary exploratory aspiration the author makes a skin incision t cm long in the posterior avillary, line of the seventh or eighth intercostal space. He then inserts a thick trocar into the neck of which he passes a rubber tube of about the diameter of a finger. After the obturator is with drawn the rubber tube is passed through the trocar into the pleural cavity. In the distal end of the rubber tube ending in a soft collapsible rubber tube which is immersed in water. In this way air is excluded. A champ is applied to the tube to regulate.

the amount of outflow of pus

With the emptying out of the pus re expansion of the lung begins. At first strong suction must be avoided on account of harmorrhages irritative cough and the danger of rupturing cortical foci Only after the fever has completely subsided and the flow of pus has completely stopped should the efforts of the organism be assisted (Perthe's procedure) Insuffication of a spirometer or rubber bag is to be recommended. Repeated roentgenological control gives information concerning the aeration of the hing and the level of the effusion. The tube is removed after there has been no evacuation of pus for several days and the patient still remains afebrile. If the drain becomes plugged by large pieces of fibrin clot irrigation with hydrochloric acid pepsin solution or po sibly rib resection may be indicated Through a small gap in the rib a hea ver drain is inserted. This is made air tight, and closed drainage is preserved (Stober system)

An empy-ma should be opened only in the hospital and under differential pressure. The mediastinum-should be supported and an open pneumothoray atavoided by increasing the bronchial pressure. The seventh or eighth in its resected in the posterior saillary line after preliminary exploratory puncture. If the increased bronchial pressure drops because of the slow outflow of pas it can be increased again until there is complete re-expansion of the lung. These should be no volent blowing. The valve is pressure are acceleration and antages of differential pressure are acceleration and antages of differential pressure are acceleration and antages of differential pressure are acceleration and acceleration and acceleration of an expensive and acceleration of the passive of small escapulated empy-ema and collections of pus of long standing open pneumothoras does no harm standing open pneumothoras does no harm.

Interlobat and mediastinal emp emas require spe interiopar and mediasinal emplement of preading gal procedures. Hecause of the danger of preading the inflammation to the free plents a huginour is quigerous. After careful clinical localization of the gangerous Atter careful chancal incumentum of the exidate (dullnes execumented erdema) and after erudate (duines circumscribed erdema) and after fluoroscopy reservion is done at the point where the exudate is closest to the cheet wall. A this is remo ed with ease not to induce the barietal blenta. Obening of the embrenor is bossiple in the first stake only if of the cimplems is hossing in the usi-stage omy it shirators share is ensen to annewment of midel spiratury excursions or the lung are observed under the thin pleura the formation of adhesions in the ties turn bients the hottosmou of sunesions in the at the first oberation by extrablental backing with bataque With the index tunder a supcostal ped is batann the moex under a successful loosen ng up the councerton petween the sugothoracic lasers and bicharen int rise barainn in crateint) wasen is ab the battern blents. A canth about the erre of the balm of a band is prepared and filled with paralin paun or a name is prepared and much with parama and the intercontaining the by a silk suture to prevent ments are drawn together by a sit subtre to prevent estrusion of the paratin In the course of two or three or needs to pleute grow together Organization I three needs the pleute grow together Organization I three needs to be pleute grow together Organization I three needs to be pleute grow together Organization I three needs to be pleute grow together Organization I three needs to be pleute grown together Organization I three needs to be pleute grown together the prevention I three needs to be pleute grown together the prevention I three needs to be pleute grown to grow the prevention I three needs to be pleute grown to grow the prevention I three needs to be pleute grown to grow the prevention I three needs to grow the grow three needs to grow the bas preays through spontaneously The fact 's then removed and the back ped tamponed with focu tennoser and one back is tembe ed at the enq

of two or three necks and the thermocautery is of two or three works and the deepest bomp In cases of tiperculons united intection embyems (a combleation of artificial pneumothorar) the chest ca rty must be kept closed as long as possible of the bed cursi ta ity imust oc acqui truscu as cuing as prossuur. In cases of stenie effusions repeated aspirations are an eases of a service estudions repeated aspirations are sufficient to pre-ent great intrapleural pressure summent to pre on great intrapieural pressure, changes E en when mused infection supervenes cnanges the named miscrom superconsappration should be continued as long as the char astration should be counting of the battert acter of the pus and the condition of the patient of the pus becomes thicker or rapid de Combression simberative pecanse of texterapsoubtion

b) the bods Buelau's syphon dramage should be p) the body business stypnon dramage snown be used impation. Ith sodium chloride and pepsin p) drochlore acid solutions ass at the e accustion There is no definite rule for the treatment of there is no dennite rule for the treatment used de residual emptema ca thes. The procedure used de resulting the size and position of the residual can its penus on the sace and position of the residual carry, and the general condition of the patient. The radical operation of Schade 5 not always necessary operation to occase a not always accused. Con plete tradual emplema ca titles are always treated hiere residual cinty eina es lues are ainays (realeu at first b. an extrapleural para ertebral Saperbruch we urse D an extrapicural para erreoral pagestructure bloracoplasty done in two or three stages from also e down card and sometimes subdemedied by bytem coront. If this does not suffice the the C I mag shell is remo ed at the next string by an intra sness is remo eo ar the next stude by an intra pleural procedure and mor of the bony framework prema processor and more of the the residual of the chest wall is emo ed so that the residual or the cuest war is emo en so that the resonat ca we is mean with sort parts my tons procedure the early high mo table, especially in cases of tubercu lons sessions can be as a street has been decreased In cases of tesignal cardies in the bosterior weging tesignal cannes has been deficienced. assumed region close to the ertebrar muscle plastics astinal region close to the ertebra: muscle pastite may be necessar. Bronchial fishila are not contra and cations to soft part plastics. They do e spon

taneously when covered by a ped cled flap f musch t and sun In emp) ema in children the fragile med astinum

in emplema in cauaren une risgue men asunum demands especially the ma ntenance of normal thodemands especialis the ma nienance of normal thofat and shin race pressure relations. Il possible pus eracuati e should be done only by a piration and stylon dra age. Thoracotomi should be done only under d! ferential pressure

# ESOPHAGUS AND MEDIASTINUM

Nosher II P In of ement of the Esophagu in Acute and in Chronic Infection Fibrosis of isolated areas of the resophagus is

(airl) common especially in such chronic inferiors as attenosclerosi

That fibrosis of the resolute s esbectagh, of the terminal bostion is the termin of it especiany or the criminal portion is the result of fection from configuous organs has been known for tection from configuous organs has ocea known for some time. In blood stream infect ons the resophs. Enr 12 often in oil ed to the extent of nicerating it ma) pe infected apo in acate injectious emp ti bushing Cheonic infection as spown by nights tion of Judspoch fee mudet the chripping in the glands and about the gland ducts 1 common. In dreases such as cuthosi of the h et which imbege the enous circulation dilatation of the incentee ine enous circuistion quaration of the poepure nut muon resseis 1 atmost constant univan en infection misculus trequentis cause asophages iniculus Hæmorthage into the muscular lavers extens e enough to distuly these posters as occur when their is pacy biesente on the aesobpadeal esses Tre thands of the asoblyams are e becally haple to m tectron and are hoopsply the cuel tonte of mixers neering and are himping for energy destray ND

Turn r G G Excision of the Thoracic Cisophagus
To Carcinoma with the Construct on al an
Extrasthoracic Cutter Ls 1 1935 crrs. 1 5

The case reported was th! fa man fifty eight the case reported was in t a man mit) exert External examination was negative or and and combanined of ornicord in sactions. operation rate examination was a constricting rocatigen ra examinat on showed a compliague, a compliague, ucolumn or the manue in ra of the arophage later gastrostom was performed and three needs later the abdomen was opened by a median incison the the abdomen was opened by a median incusion we left lobe of the h er separated from the disphragio iets some or the preseparated from the dispulse of the desophagus carried out by in and enuclear if the desophagis carried on o vertuing a nuger into the posterior mediasinous tetrans esse inci on was tried more timbust is stemocle domasto d and the couphagus envicated sternorde accusato d and the exceptionagus enucleated as far down as the growth and aller ligation of the cast the caster. The upper end was then the caster. The upper end was then the caster than the caster of t as ser upon as any The upper end ras then careful with the caster The upper end ras that the caster with the caster the caster that the caster than the caster used to a outformore mean in a time shift the dater our port on cut area and the sump despiced und the storage that the sum of the storage seasons the storage that the storage complete seasons that the storage seasons are storage from the ck of the chest cutting of the seasons a storage from the ck of the chest the sounder an ante moraci esopoagui sea ou structed by making a tube from the ab not the design of wall by the Rose ng method. The layer end ear way ov the Ko " ng method with the use of an analysis of the translated by the Tartel method with the use of an analysis of the translated to the Tartel method with the use of the translated to the Tartel method with the use of the translated to the Tartel method with the use of the translated to the Tartel method with the use of the translated to the completed by the Tarvel method with the use of all the state of the st patient are a hearty meal

Pru ost Darbois Henrion L vieratos and Brin court Mediastinal Henriae and Lipiodol Topographic Aspect (If de m i tin et lp 11 I ifet t p g pl q) I rel td ch d lepp pr 1933 304

Three ca es of med astinal hernia are reported in detail to show the all anta es of the intrapleural injection of lipiodol for examination Lipiodol per mits localization of the hernia in the anterior me diastinum with precision. After its injection the patient should be placed in profile and the \ rays passed through the body from one side to the other In the way it is possible to see the lipsodol clearly m the single or multilobular sac in the anterior mediastinum Lipiodol gives an idea of the shape as well as of the size of the sac It permits recogni tion of anomalies of the anterior mediastinal cul de sac exposes hidden diverticula and renders possible exact measurement of the sac The ordinary roent geno ram will often show a regular hernia whereas the roentgenogram made with lipiodol will show septa with more or less spacious secondary cavities

To permit a thorough e ammation of the saids and districtuols of the herms the thorax should be inclined in different directions to distribute the bipoidol thoroughly. In exploration of the anticom redistational cuil de sac the patient should be placed in ventral decubitus for some time before long gradually turned o er on the normal said. Lipsoid also permits discognition of the posterior mediasticul also permits discognition of the posterior mediasticul also permits discognition of the posterior mediasticul also permits discognition to de sacquision discognition the absorption of the posterior mediasticul and the patient is not properly mobilized the hipsoid will accumulate either posteriorily or anteriorily in the vertical position it can be seen in well defined niche with an upper level. In the horizontal position it is dissociated in the bias of the sac

FOUR SCHANCIE MOORE

#### MISCELLANEOUS

Bignami G Congenital D aphragmatic Hern a (Null ern; d framm t ca c ge ta) R d l med 933 135

The author reports the case of a male infant ten day old who was brought to the hospital because of resp rat rv circulators and d gestive disturb ance. Normal delivery was followed immediately by dispinca of the stenot c type with intervals of sufficient on which resulted in evanous and by a mit ng which resulted in evanous and by the sufficient of the

Physical examination revealed general pallor and cyanosis of the lipt and cheeks. The tempera t e was normal. The thorax was greatly expanded almost in the post uso of forced inspiration while the abdoment as a scaphold so that the di run between the thorax and abdomen was almost precipitous. Dur thorax and abdomen was almost precipitous. Dur passoon and the abdom and more than the control of the abdom and more than the control of the abdom and more than the abdom and the abd

The entire right side except the apex was dull Abdominal resonance was dull every here. On the ball of the findings of the physical examination a presumptive diagnosis of either thoracic neoplasm or diaphragnatic hernia was made.

Roentgenographic examination revaled a shifting of the mediastinal shadow to the right and a marked and irregular transparency of the left pulmonary field without definite signs of lung structure. Closer examination of the left side disclosed gaseous loops Examination with the aid of a barnum real demon strated the presence of intestinal loops in the left plearal cavity. L'actically the entire intestine was within this cavity. The author describes the X-ray findings in great detail

The article is concluded with a discussion of diaphragmatic hernix including their etiology and classification and their differentiation from eventration of the diaphragm \(\chi\_{\text{LOIIS}}\) Rost M D

Serjent E kour I ky R and Robert P Dia phrafmartic Herma of the Stomach and Golon Recurrent Pulmonary Symptoms Encysted Purulent Pleurary Obstruction of the Ter minal Colon (lie ne d ph agmatuque del t m c qui rise purulet t syste obtact colon tunnel) etc. The colon tunnel (le km d el) del pp egg 933 353

The case reported was that of a man thirty six vears of age who had had a chronic cought since an attack of influenzal bronchopneumous. In 1031 he was in bed for six weeks with congestion of the left lung. In 1032 a purulent intrathoracic focus de lung in 1032 a purulent intrathoracic focus de lung. The purulent of the left lung is the lung in 1032 a purulent intrathoracic focus de lung is the lung

The postoperati e course was characterized by abdominopelvic thoracic and mediastinal symp The complications developing included umpary retention paralytic ileus vomiting ob struction and acceleration of the pulse Elimination was finally induced and was followed by relief Thoracic symptoms then pointed to a recurrence of the purulent collection with a ri e in the temperature Marked elevation of the diaphragm was then noted and an resophageal syndrome with a burning sensa tion behind the sternum and intense dysphagia de veloped Drainage was e established Although the general condition was very poor and death seemed imminent the patient reco ered and v as discharged in good condition. However some of the \ ray find ngs ere difficult to interpret One year later the patient was re admitted to the hospital after an attack of alimentary intoxication and alcoholic in dulgence At first vom ting occurred in attacks but later became continuous Instantaneous regurgita tion sugge ted dysphagia A diagnosis of diaphrag matic hernia with obstruction of the colon was made The patient d ed during operat on

The authors review the literature on diaphrag matic hernia and concl. de that in the presence of an abnormal gastric intestinal or resophageal digestive syndrome associated with acute pleuropulmonary, complications unexplained by infection or the visceral state diaphragmatic hernia should be suspected and a roentgen examination should be made

### EDTHR SCHANGHE MOORE Heuer G J The Thoracic Lipomata A S t

1031 IC 30 801 The author reports a case of thoracic knoma and reviews thirty cases collected from the literature He divides thoracic lipomata into three groups (1) the hour glass type in which an intratheracic tumor is connected with an extrathoracic tumor by a narrow isthmus extending through a perforation in the chest wall (2) mediastinal tumors which extend upward into the neck and (a) tumors which be entirely within the thorax The symptoms are those common to intrathoracic tumors in general pain in the chest cough dyspuces of varying degree cyanosis and cardiac irregularity. In some cases an external portion of the tumor is found in the root of the neck or outside the thoracic cage. Of the eight reviewed cases in which I ray examination was definitely mentioned in the records it revealed a shadow in the thorax in only six

Of the thirteen cases belonging to the first two groups (presenting an eriterial tumor) operation was done in twelve. In the untreated case death resulted from mediastinal compression. Of the twelve patients who were operated upon before the development of aseptic surgery four died of infection.

Of the eighteen cases in which the tumor was entirely intrahorace a positive diagnoss of intra thorace tumor was made before operation or autops, in only seven and a positive diagnoss of homa was made in only one (the authors case). Fourteen of the patients dued untreated and of were operated upon in three of the surgically treated cases the operation was followed by cure In the fourth the removal of the tumor was moon plets and death resulted from a recurrence associated with mediastinal compression at the end of five years.

The large size of some thoracic hoomata is remarkable. The largest tumor which weighed 17 lb was reported by Leopold. On account of the slonness of their growth the tumors may reach large proportions before they give n e to pressure symptoms.

The origin of thoraci lipomata is somewhat problematical. The author believes with Coence that bipomata of the hour glass vanety are congenial. This theory is based on their early appearance in life in some cases the difficulty of otherwise explaining their form and their direction of growth no bis sides of the thoraci cage their analogy to compenial tumors such as dermoids and teratomata the hypoplana of the heart and lungs and the evident duration of the symptoms.

MAURICE P MEYERS M D

Ruetz A Adrances in Thoracc Surgery In 28.
Pleura Heart Pericardium and Duphragm
(Fortschnitt de Tho at hurar L net Rupen
fell Hera Mitt [fell Zwerchfell) Ze 1 and f Of

In the fundamentals of the surgical treatment of pulmonary tuberculosis there has been no thance In some cases bilateral excresis of the phrenic nerve may have a favorable influence. Temporary paraly sis of the phrenic nerve by anasthesia is used as a test to determine the effect of paralysis of this nerve on the lungs and circulation. To re-enforce phrenic exeresis section of the scalene muscles with similia neous resection of the first rib is proposed. In para vertebral thoracoplasty the effect is increased by shortening the rib stumps to the transverse processes. For maximum compression of the lung comple e remo al of the arched portions of all of the ribs is necessary The so-called partial collapse of the lungs should be restricted to parts of the lun which show a tendency to contract while the normal parts remain free from compression. Apical thoracoplasty alone is often meffective when the dome of the pleur is adherent to the vertebræ and traches. Inder these conditions apicolysis is necessary. The danger of aspiration in partial thoracoplasty may be required by pre-operative anæsthetization of the phrenic nerve Treatment by packing is of value in pulmonary tuberculosis provided the cases are properly selected

In discussing anæsthesia for thoracoplastic operations the author calls attention to Borcher's coaduction anæmia induced with large doses of adrenalin

In the treatment of lung abscesses pneumothoral has been almost completely abandoned. Conservative methods have also failed. The author discusses the principles and technique of operation.

The great majority of broachiertiess especially those of the left lower lobe are congental. Bree checkaes of the aper suggest tuberculoss Honorytess is more frequent in broachierties than in tuberculosis. Cure of broachierties than in tuberculosis. Cure of broachierties than in tuberculosis. Cure of broachierties said this certain temportant considerations are against the textiment of broachiertiess by pneumothoras after faulties of this procedure other operate a procedure are useless as obtlieration of the pleurity space it as longer effect it e. Phreacottomy has a favorable effect in cases with hismophy six or a constant of the pleurity space is a second of the pleurity space in the procedure of the pleurity space in the procedure of the pleurity space in the longer effect in cases with hismophy so or a constant of the pleurity space.

The clinical picture of massi e collapse of the lungs includes a high elevation of the temperature (usually in the third day after an abdominal operation) dispince a dry cough pain in the chest and it espiration. It is caused usually the a minist eral inflammatory mechanical occlusion of the brunchist tube.

Of the malignant tumors of the lungs only 10 per cent are suitable for operation namely those which onymated in a small broughts and he emblitated only a small amount of lung tissue. Accordingly early diagnoss is important. To determine the operability of a case a test thoracotomy is essential By the indiction of artificial pneumothorax three weeks before operation the sensitivity of the heart and lungs and the tendency of the pleura to become infected are diminished. In dogs, the introduction of a 55 per cent solution of silver intrate from eight to fourteen days before extirpation of the pulmo may lobe causes narrowing or occlusion of the

bronchus

In spite of numerous new methods good re ults
from operative treatment of carcinoma of the

esophagus are just as infrequent as ever Esophageal diverticula are generally operated

upon in one stage

Experimental studies have shown that in suturing of the esophagus it is the suture material which is responsible for leaks at the suture line. In experiments on cats the use of a suture of vaselined silk No ooo was always followed by primary wound healing.

The mortality of sutured heart injuries 1 about 25 per cent Late sequelæ of cardiac suturing have not been demonstrated clinically roentgenologically or

electrocardiographically

The development of cardiac failure in man has been extensively reproduced in animals Moreover by artificially changing the size of the heart it has

been possible to influence states of cardiac insufficiency
In the surgical treatment of changes in the valves

of the heart no further progress has been made

As the superficial and deep sensibility of the inner side of both leaves of the pernardium is very slight local amesthesia is sufficient. However Lenche has been able to elucit a depressor refler by mechanical irritation of the internal wall of the percardium. As the atmospheric pressure may have a market effect ommends the use of Sauerbruch's negative pressure chamber and warms against positive pressure chamber and warms against positive pressure

For dramage in purulent pericardius Cottam resects the right fifth costal cartilage and introduces a rubber drain from behind forward. In ordematous pericardius pericardiectomy by the method of Wahl is generally regarded as the procedure of choice for all difficult cases. However some surgeons prefer the chest window method because it has a lower mortality. The late results of removal of the peri cardium are quite unfavorable because of persistence of the base disease.

Studies of the innervation of the diaphragm have shown that the motor neurons and even autonomic nerves (vagus) have a definite trophic influence

BLUMENSAAT (Z)

# SURGERY OF THE ABDOMEN

### AEDOMINAL WALL AND PERITONEUM Peritonitis Am J S 18 1933

This article on the treatment of peritonitis based Mensink E H

This article on the treatment of peritonitis based on the pathological physiology involved is sum arized as tollons Peritoritis can usually be divided into an early

remonus can usuany of anticed into an early formative or absorptive stage during which bac manized as follows formative or absorptive stage doring which bac teriemia and bacterial toxemia preponderate and terizima and bacterial toxicina preponderate and the fully developed later stage in thich circulator) the tuny developed later stage in \ nice circula disturbances and tahibition tleus preponderate isturbances and uniform heus preponderate The most important factors entering into the pro

The most important factors entering into the production of symptoms are (1) bacterizems toxicities (2) deby dration and demineralization, toximia (2) deny dration and demineralization (3) refler symptoms of nausea anoreva and general (3) reflex symptoms of nausea anoterna and genera depression (4) inhibition fleus (5) circulatory di

depression (4) inhibition ileus (5) circulator turbances (6) anoxemia and (7) starvation nrbances (b) anoxemia and (7) starvation The most important local delensive factors against the most important local defensive factors against peritoneal infection are phagocytosis the formation peritoneal infection are phagocytosis the formation of a fibrinous exudate and early localized intestinal minimum. The general antibacterial activities are inhibition. inhibition the general antibacterial activities are interfered with by anhighrenia demineralization

interfered with by annightzmia demineralization disturbances of the acid base balance anoximis nd circulator) disturbances
The surgical treatment involves the early re custurbances of the acid bas and circulator) disturbances The surgical treatment involves the early removal of the focus of infection with care not to

sture the local delensive mechanisms Dehydration and demineralization are treated by movat of the local defensive mechanisms tien) dratton and demineralization are treated by means of normal saline Ringers and Hartmann's

solutions
The anoxemia : treated by correcting circulators of the early use of oxygen in disturbances and by the early use of oxygen in solutions

nauons To increase the colloid osmotic pressure of the To increase the couloid osmour pressure of the plasma when hock ext is 6 per cent acarts solu balations

plasma when now en is o per cent acada som tion with minute doses of pitressin are to b Suprarenal cortex extract may be of value uprarema, correx extract may be of value Fluids are not to be administered by mouth during riuios are not to be administered by mouth diving any stage of peritonitis because they stimulate gui e of peritoritis because they stimulate gut However fluids may be given by mouth

any such However fluids may be given by mount activity the time that duodenal intubation with Proctodysis and enemas are contra ndicated in suction is applied

Proctocysis and enemas are contra ndicated in the early cases of personnit due to gangenous when physiological rest of the carcum appendicular when physiological rest of the carcum appendicular successful and the carcumstances described.

most desirable. Morphine is needed to control pain. It is doubtful shortpunners needed to control pain any specific bether deep morphimization has any specific beneficial effect in personutis and its deleterous penetral energy in pentionitis and its deriver ous effect upon the re paratory mechan an as well as enert upon the re piratory mechanism as well as upon the immune reactions must be borne in mind. The plantiduc vacamotor paralism may be received in the early extended to the e

ine piancaure vasomotor paratisi may be treated in the early stages only by means of mall treated in the early stages only by means of mail do es of ephedrine. Ephedrine also probably lessens ao es ot ephedrine Ephedrine also probably lessens weeping from the peritoneum and plasma loss

into the intestine and its inhibitory effect upon & t into the intestine and its inhibitors, effect upon motil to its of ad antage during the early tages. oth ty is of ad antage during the early tages. Inhibition lieus and distention are treated by do-

Irinbition news and distention are treated by do-denal intubation and the intravenous administra denal intubation and the intravenous administra-tion of hyperionic salt solution. The timulating tion of hypertonic salt solution upon propuls reflect of hypertonic salt solution upon propuls re evect of hypertonic salt solution upon propuls to intestinal motility contra indicates its use in the

early formative stages

rty tormative stages Gluco e solutions are e pecially indicated dur \$ ie starration tage Fowler's po ition is of definite value diring the

rowiers position is of dennite value diring the circle at formative stages. Later the state of the circle at formative stages. the starvation tage earl formative stages Later the state of the circu-lation and the patient's comfort should determine

ne position of the patient During the early formatice etages of peritonits ourning the early formatice stages of periodists in M N ray treatment; probably and cated because the position of the patient

m id > ray treatment | probably ind cated beci-it ray es the anti bacterial delense mechanisms rates the anti-pacterial detense mechanisms. The Possibility of the occurrence of a mechanical opstruction in bentouries from ringing of the poses oustruction in peritonius from kinking of the board localized abscess or a plastic erudate must be borse. localized abscess or a plastic equate must be some in mind. Entero tomy is indicated only after the sample method of duodenal intubation with suchos maple method of duodenal intubation with suchos.

is been given a trial Spinal auxisthesia is contra indicated during the pillal anasinesia is contra indicated duning the carry ab orbitile stages of peritonitis because of is has been given a trial early ab orpicle stages of peritonius occurse of 13 stimulating effect upon peristal is Ether is confident

stimusating energy upon periscal is exact upon periscal of pentomit nicated nuring an stages of pentoniti

cases is discus ed briefly GASTRO INTESTINAL TRACT

Florey II N and Harding II E The Functions of Brunness of Glands and the Pl 17th End of the Stormach | Post & Bacter | 933 xxxxx 41 In the experiments reported in this article the to the experiments reported in this article or properties of duodenal secretions and the reachors

properties of duodenal secretions and the reactions shown by Brunner's glands and the Pylone glands in the rabbit guines pg rat and est were in estigated the rabbit dundenal loops were wolated between In the rabbit dundenal loops were wolated between in the radiit anotenal loops were registed between the point of entrance of the billiary and passenger. the point of entrance of the bulary and pancreatic june were ducts so that both bile and pancreatic june were exchinged and the quoquag secret on config pe col d and the duodenal secret on could be be a lected The duodenal secretion was found to be a dear slightly opalescent murous junction, the consistency of each with I make a special part of the consistency of each with I make a special part of the consistency of each with I make a special part of the consistency of each with I make a special part of the consistency of each with I make a special part of the consistency of each with I make a special part of the consistency of each with I make a special part of the consistency of each with I make a special part of the consistency of the connectors of case ag to it was abbareatify comgeneous and could be diluted with water 115 most rem. Lable feature was its b gh earbonate conte ! rem kable reasure was its bigh earbonase come of colormetric b drogen for e umations howed a Commerce b drogen ion e umations nown, a ph of from 8 o to 8 2. Th spectrum was interpreted pit of troins o to \$2. In a secretion was interpreted as being that of Brunger's gland in the disordering as orang mai of pruner's grand in the unoutcasted because when similar loops of item were prepared to the first of the control no file d was secreted and the loops of board were and his a was secretal and the loops net distended.

collapsed whereas the dandenal loops were dastener.
The inject on of pulcearp n had no marked street.
The inject on of pulcearp n when the planchus on the quantity secreted when the planchus.

nerves were severed just below the diaphragm or the vagu were cut in the neck the secretion was the same or possibly even greater. The production of the thick fluid re embling egg v hite can therefore continue after severance of both the main nerve trunk supplie to the abdomen Atronin alone an parently did not inhibit the secretion but after ection of the splanchnics it apparently had an in bibitory effect Histamin did not increase the amount of secretion. Neither did surgical removal of the stomach Feeding or starving of the animals did not alter the secretion. Histological evidence of e haustion in the cell was sli ht su gesting that secretion was formin in the cell at about the same rate as it was expelled Perfusion of the duodenal loop with hydrochloric acid increased the secretion Secretion with neutralization of the perfusing hydrochlone acid still occurred after section of both vagu and splanchnics

In the fat perfusion e periments showed no damage to the surface epithelium of the stomach after treatment with strong or weak acid. In the duodenum however considerable damage by N/10 and was found. The tips of the vill were stripped of epithelium and in some cases micro copic super ficial ulcrs were produced. Perfusion with \/o

acid cau ed no duodenal damage

In addition to the neutral zin effect of the duo denal exterion from Brunners glands the authors review data presented by other investigators with regard to the mechanical protection afforded by micras emphasizin the importance of this alkaline secretion in protecting the gastric and duodenal microsa and suggesting a possible relation bett cen failure of ecret on and the de elopment of peptic uler. Surge, 15 for 1250 VID

#### Gucci G Chronic Gast Itis (Sull gastrate 10 P I I Rom 933 1 chir 607

The author reports the case of a woman f rtyyears of age ho had complained of dull ep gastric distres with vomiting for three months. Roenigen examination revealed a filling defect on the g eater curvature of the stomach. The diagnoss of an infilt attive lesion of the stomach was made. Subtotal astrectomy, was followed by uneventful recove; y

Examination of the resected specimen disclosed in the body of the stomach an area in which there were mammill ry projections separated by patches of smooth mucosa Histological examination of this area sho ed the muscular layer relati ely uninvolved except for a moderate perivascular infiltration. The submucosa presented no unusual cha ges mucosa particula ly in the portion beneath the muscular s sho ed an infiltration with mo ocytes polymorphonuclears and plasma cells A more pro nounced infilt ation w s found in the lowe port on of the mucosa around the cul de sac of the gland tubules where in places it appeared to form small abscesses and e tended nto the connective tis ue space between the individual t bules. The epi thel al covering on the surface of the mucosa had been replaced by a very vascular granulation tissue with island of gland tubules

In sections of the specimen the gastric glands seemed to have undergone a metaplasia and had assumed the appearance of cells of intestinal mucosa such as are found in the crypts of Lieberkuhn

Peter 1 Po 1 M D

Finocchiaro Amantia G Gastro Intestinal Amoe b asis in Surgery (Am b 1 g st o intestinale in ch ru ) i ch tal d ch 1933 v v 88

Amantia reports two cases in which the endamo ba hi toly tica was found in the stool of patients with a roentgenologically demonstrated gastriculier. These patients were treated for the amorbia 1 with emetin and later subjected to gastro enterostom, for relief of the ulters symptoms. Both recovered uneventfully

Also reported are three cases in 1 hich character i the ulcer symptoms were associated with the presence of amoche in the stools but ulcer was not demon trated on roentgen examination. Is the symptoms subsided under emetin therapy. Amantia believes that the con lition was an amochic gastriti.

From a review of the as ociation of amicebic with appendicitis Amantia concludes that in chronic ap pendicitis medical treatment should be given whereas in acute appendicitis immediate surgery should be done and followed by specific therapy against the endamorba

Piter A Rosi M D

#### McI er M A Acute Intestinal Ob truction Tenth In tallment 1 J Su g 933 x 49

The mortality of intestinal obstruction is high In 315 cases of acute inte fund obstruction seen in the Mas achisetts General Hospital the mortality was 31 per cent In cases of acute mechanical obstruction except those due to neoplasm or strangulated external herma it was 41 per cent. In cases due to neoplasms it was 31 per cent and in those due to strangulated external berma it was 18 per cent. In comparing the mortality rates in ten 9 eer periods in the same hospital the author found that whetras the mortality decreased in the period from 1908 to 1917 it had changed it the since then

The mo t important factor in the mortality is the time elapsing before operation. In the cases operated upon at the Massachusetts General Hospital less than twenty fou hours after the onset of the condition the mortality wa 17 per cent in those operated upon from twenty four to forty eight hours after the onset it was 35 per cent and in those operated upon more than forty eight hours after the onset it was 60 per cent Interference with the circulation of the bowel also increases the mortal ty In cases with this complication the mortal ty was 53 per cent whereas in cases without this complicat on it was 37 per cent The mortality varies al o with age In the cases of patients less than a year old it was 60 per cent and in those of patients over fifty years old it ranged from 55 to 100 per cent

The modern treatment of the dehydration associated with intestinal obstruction results in little

decrease in the mortality as compared with the mortality in the periods before careful pre-operative preparation was given McIver's explanation for this is that simple high obstruction in which experimentally salt solution is so efficacious in prolong ing life is seldom seen in man and whenever there is interference with the blood supply of the gut dehydration plays a secondary rôle and correction of the dehydration does not prevent the development of toxemia The mortality is lower in cases of obstruction caused by neoplasms because the tumor does not interfere with the circulation of the gut Of the cases of herma reviewed the mor tality was highest in those of umbilical and ventral hermia in which it was respectively 44 and 33 per cent

In discussing the causes of death McIver presents a number of theories. He believes however that dehydration and hypochloramia play etiological roles in relatively few cases and only in those of high obstruction. ALTON OFFENDE M D.

McI er M A Acute Intestinal Obstruction Eleventh Installment Am J Su g 1933 x 11

A number of theories have been advanced to account for the deaths from intestinal obstruction Many believe that especially in cases with damage to the bowel wall and mucosa a toxin originating in the bowel is responsible. There is no question that the contents of the bowel above the obstruction are toxic and that the toxins are absorbed into the blood stream The nature of the toxins has been debated by numerous investigators. It has been quite def initely shown that the symptoms of high bowel obstructions are due to the loss of intestinal secre tions and not to toxemia as was previously thought Excellent experimental e adence has been presented to prove that the toxin in the lumen of the intestine is derived from bacterial action. However, the Welch bacillus probably plays only an insignificant rôle or no rôle at all ALTON OCHSNER, M D

McI er M A Acute Intestinal Obstruction Con clusion Am J S g 933 xxii 579

That absorption of the tourn in acute intestinal obstruction never occurs from the normal mucosa is evident from the fact that the injection of ha\_bh tone material into the lumen of the intestine of normal animals produces no symptoms. Howe or following changes in the mucosa due usually to interference with the blood supply to the gut the tone material is absorbed. The absorption may be brought about by increased intra intestinal pressure or interference with the blood supply. The route by which the toxins are absorbed from the lumen of the bowel has not been proved. There possibilities are (i) the blood stream (a) the lymphatics and (3) the general persioncal cavity

Relatively recently the importance of deby dration and loss of chlorides in intestinal obstruction es pecially obstruction high in the intestinal tract has been emphasured Stepaston of blood in the splanchine area and ansum of the vital centers thought by many to be the cause of symptoms and death. In considering death in intestinal obstruction it is important to differentiate between the levels it is important to differentiate between the levels it is made to loss of fluids and electrolytes. In simple low obstructions occurs. In high obstruction, death is due to loss of fluids and electrolytes in simple low obstructions of the small intestine the marked distention of the bowel causes intefferent with the blood supply to the intestine which probably with the blood supply to the intestine which probably with the blood supply to the intestine which probably and the supplementary of the sup

ALTON OCESNER, M D

Best R. R. Newton L A and Meidinger R.
Absorption in Intestinal Obstructi n A &
S I 933 XXVII 1081

It is now the opinion of most authorities that in testinal obstruction may be classified either as single obstruction or as obstruction with gangerie or interference with the blood supply. There is a gross diference between the two conditions. The presence of a tout element in the second type is indisputable. The evidence indicates that in simple obstruction a

definite tomn is not the cause of detth.
In early reports great emphasis was placed on Le
presence of a newly formed and exceedingly tout
substance in the fluid contents above the obstruction
and an increase of absorption resulting from in
creased pressure and changes in the microis men
brane blane them of the properties of the content
to the content of the properties of the content
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tion in combination with a disturbance of the aod
asse equalibrium.

Wangensteen demonstrated by careful expen ments that the contents of the normal and the obstructed intestine are equally tonic, and that the contents b low the obstruction are apparently exmore tone than those above it. The rate of absorption and the selectivity from above or below the obstruction were not considered in these expenses.

It seems logical to the authors that if no pecific form is present in obstructed loops free from gan green the lethal factor must be either increase absorption of substances normally present in the interties or the failure of a neutralization process we buffer reaction which would ordinarily occur the concession which would ordinarily occur the concession of the contract of the contraction of the secretion of the institutial mucosa and in some manner play a rôle in the causation of death

Since considerable evidence has been presented to disprove the p esence of a specific torm in the obstructed intestine the authors concluded that if absorption abo e the obstruction could be shown to be decreased or at least not increased there would be some evidence that the cause of death is the fall ure of a neutralization process or buffer reaction to take place as it would normally when the different levels of intestinal contents mingle

The authors were unable to demonstrate any increase in the rate or selectivity of absorption above on the heavel of obstruction. If we accept the customs forming that mornal intestinate poterior in the second of the second of the second test are as tone as the contents above and below an obstruction it may be assumed that there is no specific team which develops after the onset of obstruction. Wangen teen's experiments suggest that there is no increase in the rate or selectivity of assumption above the obstruction and this seems string eavlence that the increased absorption above the obstruction cannot be the cause of death Wangentiern's experiments tend also trule out the prof ability of increase all absorption below the

of struction

The authors therefore believe it to be within the realm of probability that death following intestinal obstruction is due to a failure of neutralization or buffer reaction to take place between ut per and lower intestinal contents in the lower part of the intestine This need not be interpreted in terms of the development of a definite toxin it is rather a physiscremical reaction that usually takes place when the contents of the upper and lower parts of the intestine are permitted to intermix With this plenomenon there occurs at sorption or failure of absorption of a substance \ which causes a dis turbance not in accord with normal cellular function an i incompatible with life. The best clinical evi dence in support of this theory is the fact that an I struction of the distal colon is compatible with I fe for some time. This may be explained by the fact that the intermixture of upper and lower in testinal contents has already occurred above the of struction and al sorption has taken place. If the of struction occurs above the distal colon in the more active secreting levels and the absorption area d ath occurs earlier than when the obstruction occurs lower ARTICLE L. SHEPPERER M D.

Wang nateen O II and Paine J R Treatment of Acute Intestinal Obstruction by Suction with the Duod nal Tube J Am 31 Atr. 1933 3 1532

The authors ha ef une that partial acute obstruction of the small intestine may almost instantably be dealt with sati fact this by decompression with the disselent luke almo. In roots instances of subacute of struction whether in the small intestine or in the closs used in section of the looked at these serves able is tell in the 1 structive ph. e. In many late of the looked in the looked in the serves able is the in the 1 structive ph. e. In many late with the control of the looked in the server able is the looked in the looked in the server which the obstruction excellentiation and interest operate decrease in with the hoodernal catheter where the looked is the looked in the looked in the looked like 1 to the past ent a better operate en. k.

Her etic II there are two types of obstruction in whith the u e of the method is contra indicated (1) straight time of struction and (2) seute obstruction of the descending colon with enformous disten-

tion of the proximal colon. The latter is essentially a strangulation obstruction as the competent proximal ileocolor sphaneter usually predudes regue, the tool into the small intestine and limits the distention to the colon, and necrosis gangene, and perforation occur in the recum unless the colon is documersed.

In addition to these absolute contra indications there are a number of relative contra in lications In cases of obstruction due to strictures in the in testine whether of a simple or a malignant nature it is obvious that a direct attack must be made on the obstructure mechanism whether or not decom pression of the acute obstruction can be affected by the duodenal catheter. In cases of complete adhesive obstruction of the lower portion of the small intestine decompression by the duodenal tube alone may fail and after a reasonable trial if roentgenograms do not demonstrate definite diminution of the disten tion recourse should be had to enterostoms. The appearance of gas in the colon in complete obstruc tion indicates not only a satisfactory decompres ion but also automatic re establishment of the conti nuity of the bonch

By the occurrence of loud intestinal borbory gmi heard with the stethoscope at the acme of intermit tent cramper pain the presence of untestinal colors a established. Though intestinal noises may be heard in other colors or acute lesions of the abdomen there is in these no intimate time relation between the pain and borborygmia as there is in obstruction of the

bowel The salient features in the diagnosis of acute obstructions are discussed lomiting is usually a prominent symptom in all acute obstructions of the small intestine. That the conspicuous vomiting of obstruction is essentially regurgitant is indicated by its frequent absence in acute obstructions of the descending colon in which the small intestine often does not participate in the distention Cases of simple obstruction ordinarily present no tenderness or rigidity of the abdominal wall. In strangulation obstructions with the single exception of intussus ception in which the strangulated intestine is within the normal ensheathing chinder rebound tender ness may be demonstrated. In simple obstructions the general condition is not disturbed until late Patients with strangulation obstruction occasionally exhibit an early increase in the pulse rate due to loss of blood into the peritoneal cavity and the infarcted segment of intestine Diminution of the blood chlorides elevation of the non protein nitrogen and alkalosis occur con istentile only in high obstructions and then only after persistent somiting

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McI er M A Acute Intestinal Obstruction Eleventh Installment Am J S g 933 xxxx

A number of theories have been advanced to account for the deaths from intestinal obstruction Many believe that especially in cases with damage to the bowel wall and mucosa a toxin originating in the bowel is responsible. There is no question that the contents of the bowel above the obstruction are toxic and that the toxins are absorbed into the blood stream. The nature of the toxins has been debated by numerous investigators. It has been quite def initely shown that the symptoms of high bowel obstructions are due to the loss of intestinal secre tions and not to toxemia as was previously thought Excellent experimental e adence has been presented to prove that the toxin in the lumen of the intestine is derived from bacterial action. However, the Welch bacıllus probably plays only an insignificant rôle or no rôle at all ALTON OCHSNER M D

McIver M A Acute Intestinal Obstruction Conclusion Am J S g 933 xxxx 579

That absorption of the tonin in acute intestinal obstruction never occurs from the normal microsa is evident from the fact that the injection of highly tonic material into the lumen of the intestine of normal animals produces no symptoms. However following changes in the mucosa due usually to interference with the blood supply to the gut the tonic material is absorbed. The absorption may be brought about by increased intra intestinal pressure or interference with the blood supply. The route by which the toruns are absorbed from the lumen of the bowled has not been proved. There possibilities are (1) the blood stream (2) the lymphatics and (3) the general persional cavity.

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Best R R. Newton L A and Meidinger R. Absorption in Intestinal Obstruction 4rd S g 933 xxvii 1081

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The authors were unable to demonstrate any in crease in the rate or selectivity of absorption above or below the level of obstruction. If we accept Wangenstens s finding that normal intestunal contents are as toru as the contents above and below an obstruction it may be assumed that there is no specific torun which develops after the onest of obstruction. Wangensteens experiments suggest that there is no increase in the rate or selectivity of absorption above the obstruction on and this seems strong evidence that the increased absorption of death angeoties, a repriments tend also for rule out the probability of increased absorption below the obstruction.

The authors therefore believe it to be within the realm of probability that death following intestinal obstruction is due to a failure of neutralization or buffer reaction to take place between upper and lower intestinal contents in the lower part of the intestine This need not be interpreted in terms of the development of a definite torus it is rather a physiochemical reaction that usually takes place when the contents of the upper and lower parts of the intestine are permitted to intermix. With this phenomenon there occurs absorption or failure of absorption of a substance \ which causes a dis turbance not in accord with normal cellular function and incompatible with life. The best clinical evidence in support of this theory is the fact that an obstruction of the distal colon is compatible with life for some time. This may be explained by the fact that the intermixture of upper and lower in testinal contents has already occurred above the obstruction and absorption has taken place. If the obstruction occurs above the distal colon in the more active secreting levels and the absorption area death occurs earlier than when the obstruction occurs lower ARTHUR L SHREFFLER M D

Wangensteen O H and Paine J R Treatment of Acute Intestinal Obstruction by Suction with the Duodenal Tube J Am M Ass 1933 1 532

The authors have found that partial acute obstructions of the small intestine may almost invariably be dealt with satisfactorily by decompression with the duodenal tube alone. In most instances of subacute obstruction whether in the small intestine or in the colon suction with the duodenal tube serves accountly in the obstructive phase. In many late accountly in the obstructive phase in many late in which the obstructive mechanism intestine in which the obstructive mechanism operate decompression with the duodenal catheter will render the patient a better operature sub-

Theoretically there are two types of obstruction which the use of the method is contra indicated (r) strangulation obstruction and (2) acute obstruction of the descending colon with enormous disten

tion of the proximal colon. The latter is essentially a strangulation obstruction as the competent proximal leacoids sphinter usually precludes regurgitation into the small intestine and limits the distention to the colon and necrosis gangrene and perforation occur in the account units, the colon is decompressed.

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sman intestine Dissertion of the colon means that e vostructuon is complete The factors that influence the exact determination the obstruction is complete of the location of the obstruction by 7 ray exam mation are probably these (1) shortening of the bowel (2) increased weight of the coils incident to the collection of thing astimic them, the extent of the roace. (3) increases weaking on the constitutions to the collection of fluid within them, the extent of the diplacement being limited by the length of the large than the large that the large than the large tha

nucservery and (4) one discriptions of 1848 and initial within the distended coils. Gaseous collections will within the distended cons Cascons conscious wife be readily apparent, whereas a egment of intestine ne reauny apparent whereas a egment of its distended by fluid alone cannot be detected The nearer the drainage vent is placed to the site

ine nearer the drainage vent is placed to his site of the obstruction the more adequate and complete of the obstruction the more adequate and complete of the obstruction. The authors out extra war we con necompression the surnors cut extra holes in the duodenal tube as far back as to in proximal to the tip of the eatheter High the end of the citypete. In the quoqeants, continuous section hierarcise to the theorems earnests. With the can or may then be executed simultaneously on both in may then be executed simultaneously on notur an testinal canal and stomath. Occasionally it is pos testinat canat and stomato. Occasionain it is pos-Stoke to memoric me momentum mero. to and in telexing the to force adminest. Nates and to and in telesting to a negative blessage of 12 cm of water lies within the range of the maximum ol water hes whim the range of the maximum the range of the progress of de Combinession pt toettlemodiams wage at the pegage Numpression is recurrently and material the neutrice. The boret has any accommodated itself to a certain degree of distention no pan will be noticed if there uegree or instension no pan will be notified it there is no increase in the distention. Mere cressation of to an increase in the discretion there cessagon of pair does not mean a successful 1 sue. In the pain coes not mean a succession are an ine authors cases the use of narcolus or sedant es for

the tenet of bain is avoided. Hot backs are em No find is becauted by month while the suction 15 in progress From 3 000 to 4 000 c.cm. of salt as as properties a const of decrease steel as seen as ployed routinely solution with a 5 per cent content of ucertoos are given intravenously by the drip method. The patient By permitted to such tee or chest gum or lemon to

nnussee the now of soil is In 20 cases in which decompression was effected In 20 cases in which decompression was elected by suction alone there were 3 deaths 11 cases in which decompression was elected by suction but 10 which decompression was elected by successful. stimulate the flow of sali a operation was subsequently performed because of operation was subsequently ferturated necessary the persistence of an obstructing mechanism there

## Butler R W Ob errations upon Multiple Intra was I death

Multiple intramesentene di ert cula must, be unipple intranseigner di eri cus most be distinguished from other types of di ericula bettier distinguished from other types of distinguished from other types of distinguished from other types of distinguished from the control of t occur of the measurement of the first and success and such as tract or directions confernial porches and awar as react one unterturns Confermal Posts and described vestural and de clomental cysts and decreased are the control of the cysts and the control of the cysts and the cysts and the cysts and the cysts are rare and u unably found activities. They are rare and u unably found after death the cysts are rare and unably cysts and the cysts are rare and the cysts are rare. posturoriem examination after death from some other condition. The author's report is based on an

analysis of 20 cases. The average age of the pa analysis of 20 cases 120 attrage age of the pa-

abi rare before the age of fort occase of mul to intrame entent di erucula of the small intestine in

The cond tion is characterized by the occurrent of a number of directions (as man) as too praa child has been reported

peen tonud in 1 case) in the lehning and root or a manner or enterfront fax many at 420 m.s. been toung in I case; in the Jejunum and arrest leum The Jarger di erucula occur proximale. Te questicing cas) in erre trom man council bocker the size of a pea to large globular deflucible curor more in diameter. All except the very small sid or more in manneter Au except the Very small and have thin walls. They occur at or near the mean nave thin wans they occur at or pear the meaning tent border the small ones pu hing straight of icin usuar the sinan ones pu nog stra fri e i into the mesentery and at times overlapping te suce of the mesentery and at times overlapping? ( the casa secta reaches the powel wall. The obsurts

between the boxel and diserticula are large Chucan the maker and divertions are rate. Chucan) the cases may be on location is though edgent bethabs at bostmortem examination has bio duced no symptoms and is in no wa related to the cause of death (12 of the cases re exed) (1) those on which the directionly prouduce definites into its in which the directicula pronduce definites mpt with the cases reviewed) and (1) those in which the symptoms if any has a been slight and treatment of motions if any has a been slight and treatment of the cases and the cases are considered to the case of the

s) mproms 11 an ha e been suput and treatment 15 sought becau e of an urgent abdominal emergency Abdominal symptoms are not distinctly to In 1 of directly related to the di erticula

Accommand s) in promis are not customer in the ind antoors cases ray examination seems and the seems of er ponts after a pramntp ment. The questicals acc are moure a manurus meal toe unverturus a ree seen to be almost free of bismuth at the end of tea seen to or amost tree of comments at the time of the small bowel emptied in normal time nours and (or small power empired in normal time.)
These findings support the theory based on an tomical another subsection to the sade obscure, a rese another subsection to the sade obscure. the sacs will not tetain the find power content to formact Reconner that occarise of the sacs observed. the sates will not retain the nind dowel content for long. Although this X ray picture by Thical sales. to occurs to a crammation is of little discourt. and as the directicula do not fill readil after the

ungertion of an obsque meal and in most cavet can The author belie es that if the condition is accidentally disco ered b 7 ray examination in a accurement casco ered to reducing no statement of the producing no statement of the producing of the produci not be visualized Howe er il at south not be treated surgical flowers to troublesome symptoms are present operation in numerous symptoms are present operation; justifiable since a complete resection of the affects. Justification source a complete resection is impressible a area will result in cure. If resect on is impressible a short care ung operation may refe e the symptoms autil sesection can be done. In cases in spirit man

toms has a recently appeared for the first fine con ervati e medical treatment should be tried before Acute complications are not common 45 might surgical measures are ad used be expected then are usuall affarmation in receptation of the second return to the second return return. In some cases performing of the second return return.

nature. In some cases perforation of the sac over 18.
If the presence of di ert cula is n 1 known the con-A the presence of all efficients is n a known and plications cannot be accurately diagno ed In microscopic examination of tissue from 4 Care the author found that in e ery netance the will of

the sac was composed of both longitudinal and cir cular muscle coats in addition to mucous membrane and perstoneum The muscle coats are more evident in the smaller diverticula but muscle cells though few can be made out even in the anices of the larger diverticula. The author believes that the apparent absence of muscle f bers described in the literature is due to the fact that as the sac enlarges the mus cular layers are stretched and attenuated so that after the diverticula attains I cm in diameter the mucous membrane and the muscularis mucosa hermate between the fibers of the main muscular coats. The fact remains that at the start the di verticula consist of all coats of the bowel. In the larger diverticula the mucous membrane also shows explence of stretching. It becomes thinner and the ville are fever al orter and flattened Sections of the vasa recta in the involve I areas were not con vincing some sho ing subintimal thickening and sciero i of the valls valle others appeared normal

From the standpoint of etiology the follo ing

I These diverticula are not found in infants or young persons

2 They occur in elderly persons or persons past middle age and often appear in the process of progressive formation

3 Their points of origin at the mesenteric bor der bear a definite relationship to the vasa recta 4 When small they consi t definitely of all coats

of the bowel wall being true diverticula of the bowel wall n thermal protrus ons of mucous membrane
The frst 2 facts rule out a congenital origin
Since the main trunk of the messnteric vest does

once the main trunk of the mesenteric versel does in t penetrate the muscle coats of the bowel at the mesenteric bor fer but enter at the sides of the bowel the hernation theory is not tenable. This hypoth essais rule I out also by the last fact cited

Therefore in the author's opinion the 2 main eti logical i sibilities are traction on the bowel from vithout and increased intra intestinal pressure acting from within Butler believes that he has satisfact r ly demonstrate 1 experimentally that both of the e factors acting together can produce tle condition. In fresh postmortem material the jejunum and the mesenteric arteries through the super or me enteric arters sere tensels disten led with plater-of lans cream. As the bowel his tended the loop tended t straighten out and when it as ter elv listen led the me enters in the con cavity I the Irop formed a daphragm pulle I taut all ar un i it circumference the vasa tecta being thus stretched Roentgenograms of the specimens h welling dive t ula ppe ite the point of attach ment of the vasa re ta These diverticula consisted of all f the coats f the bowel wall and were clearly tract n peckets Further ! tenti n of the bowel re ult I in ruptu e of the muscle coats with sub equent herniton of the mucous membrane Butler as un bl to pr fuce the e results in speci mens rem ed I om persons under twenty years of age. It appears to him that arteriosclerosis of the

nesenteric vessels may be an important factor in the formation of the diverticula as this would lessen the elasticity of the vessels thus increasing the traction effect T Buyong Jones M D

Loster II Intussusception im J Sug 1933

The author reports 5 cases of influssusception due to a benign tumor 1 our of the patients vere children. It is estimated that polypi are present in 5 per cent of cases of intussusception. In the small instances may be the strength of the control of the control

gained that intussusception is primarily a condition of infancy which occurs most frequently in well nourished usually breast fed infants. Its onset is often preceded by diarrhoza or an error in diet Castor oil may be an important factor in its production by causing violent and irregular Jeristaltic contractions.

Nothased and Propping produced intu susception in animals by stimulating a segment of the intestine with the faradic current. If raser pointed but that the motor and inhibitory nerver of the large intestine as far as the lower end of the pelvic colon are derived from the sympathetic nervous system alone and that intussusception occurs most often at the point of the intestinal tract where the nerve control changes from a double supply, consisting of sympathics and the trap pupil tract there is single sympathics and the trap pupil tract there is single sympathics and the sympathics discribed the sympathics are supplied to the sympathics and the sympathics discribed the sympathics are supplied to the sympathics and the sympathics are supplied to the sympathics and the sympathics are supplied to the symp

tush wave is a true peristaltic wave with a con traction preceded by complete relaxation of a seg ment of intestine. Intussusception is not likely to occur unless with such a derangement of perve dis inbution there i a structural peculiarity of the intestine or its attachment which would predispose to it. In cases of ileocarcal or ileocol c intussuscen tion a mesentery to the crecum an I ascending colon is di covered constantly. Another structural factor to which Friser call attention is the strong muscular intestine which is found in the well-develope I child in whom intussusception is most frequent. Lerrin and Lindsay maintain that intussusception occurring in the ileocretal region is due to abnormal amounts of lymphoid to sue a high in turn comes from a change from breast milk to other foo is producing gas or intestinal disturb nees with associated lymphatic hyperplasia The or linary intussusception occurs in a down

ward direction 'scending intussusception is rare.

In an analysis of 321 cases of intussusception in
infants Wess found that 24 per cent were of the
enteric 47 per cent of the ileocycal 10 per cent of the
ileocolic an 124 per cent of the colic variets.

Because of the mechanics mool ed the local path logical changes in intussusception are con siderably different from those in other cases of acute intestinal obstruction. The original changes be guning as ordema and extravisation of the may soon pass into necross and gargation. The swelling is most marked at the aper suggestion. The convexity of the untessusception. There as increased permeability of the untestinal wall to bactern Gangreen is much more likely to occur and occurs much earlier in the intussusception than in the in the suspension.

With few exceptions the symptoms are similar to those resulting from intestinal obstruction. All are referable to the sudden occlusion of the lamen of the intestinal tract. Most prominent is abdomined that intestinal tract. Most prominent is abdomined that in the sudden occlusion of the lamen of the intestinal tract. Most prominent is abdomined that in the sudden is a sudden in the sudden in the intestinal traction of the sudden is a sudden in the cases. Instead of the ordinary, bowel movement there is very frequently the passage of blood and mucus. This is almost authoronomic.

In most cases an abdomnal numor can be felt. The tumor is sausage shaped about 1 m in diameter of variable length and hard. It becomes more definite during the spasm of pain and may almost disappear during the interval of freedom from pain. It may be detected any where in the colon but is found most frequently in the left side of the abdomen. It is tender and its manipulation produces spasm. The blood which appears from the axis is usually bright varieties.

Intussusception must be differentiated from acute enterocolus. Both conditions are frequently preceded by digestive disturbances such as durribus 
owniting and the passage of blood and muous from 
the rectum accompanied by tensimus. The crucial 
point in the dignosis is the demonstration of complete intestinal obstruction. Such obstruction is 
evidenced by mucis on the diaper and bile in the 
blood. In acute intussusception the onset is usually 
vers sudden.

Intussusception must be differentiated also from Henoch spurpuir. The latter usually occurs in older children and is never accompanied by true intestinated obstruction facial matter always being found must with the blood and mucus passed by rectum. More or in purpura rectal examination discloses a characteristic edemats of the mucosa and fan intatumor is pretent it is fired usually situated in the left line fossa; and due to inflitration of the colon behaviorable During the course of purpura ecoty motice spots hake their appearance around the joints of the extremities.

When an injussusception protrudes from the anis it may be mit taken for prolapse of the rectum. The differentiation is made by the examining farger which in true prolapse cannot be inserted between the protrusion and the walls of the rectum whereas in an infussusception it can be swept completely around the prolapse.

The prognosis of intussusception depends in large measure on the duration of the condition before treatment is begun. The type of the intussiscepton is also a factor. Hecoche intussisception is the type most difficult to reduce and the first to bying gangrenous changes. Enteric intussisserption of mexical in these respects. Spontaneous cure does not occur in more than 1 or 2 per cent of gas.

The treatment is surgical. The air and water reduction methods are dangerous because of the eight circulatory changes in the affected bowl which diminish the resistance of the bowl to pressure a favor perforation. However Hipsley retently recorded 100 consecutive cases treated by hydrosate pressure with a mortality of 5 per cett and consolete

reduction in 62 per cent

The operative procedures indicated vary accord ing to the nature of the condition Tension on the intussusception is usually ineffect; eard not without danger The safest and most satisfactors procedure 1 backward pressure on the apex of the intus userntum by successively enclosing more and more of the intussuscipiens in the hands in a retrograde direc When reduction is difficult the previous maneuver may be augmented by pulling upon the entering loop. If this is not sufficient it is advisable to wrap the entire tumor in a warm wet pad and then applying pressure equally in all directions. squeeze the mass with the hands. This reduces the bulk by displacing some of the liquid from the wall into the lumen and facilitates reduction by the measures which previously were unsuccessful

The apex of the intussusceptum should then be carefully examined for tumor Because of the cedema it is often difficult to determine the presence of a neoplasm. Under such curcumstances there should be no hesitancy in incising the intestine in a longitudinal direction to ascertain the condition ac curately If a tumor is discovered it should be removed by local excision or enterectomy unless the patient s condition will permit no further operative treatment. Malignancy is encountered more fre quently in the large bowel than in the small bowel and more frequently in the adult than in the child. Pedunculated tumors are far less likely to be ma g nant than tumors without a pedicle When a session tumor is definitely benign its complete destruction may be accomplished with the cautery without enterectomy

In all resections in children the continuity of the intestinal canal will be most easily and safely restored by lateral anastomosis after end closure

In the choice of anxishesia subarachnoid block should be considered first. It produces no shock prevents operative trauma facilitates reduction of the intussusception causes no tissue irritation combats ileus does not abolish the cough refer and is easy to induce and safe.

Postoperatriely a 5 per cent solution of solution chloride should be given intra enously. Fluxes should be forced A 20 per cent solution of glaces should be given intravenously if vomiting prevents its oral administration and insulin should be given subcutaneously. Hypodermochysis is often a very

valuable and When reduction is impossible or gangerie has developed the condution of the patient determines the choice of treatment. The procedures to b considered under such circumstances are (i) resection with intestinal anisomosis (2) resection with enterestiony and (3) wrapping of the intrussicacity on in omentum followed by enterestiony with resection and anisomosis after the urgent symptoms of obstruction have subsaded

NORMAN G PARRY M D

Kjærgaard II Duodenal Ulcer with Pylorospasm and an Increase in the Blood Ures icta med Sca d 933 l x 489

After reviewing the literature on the increase in the blood urea secondary to pyloro pasm from duo denal ulcer the author reports a case in detail

Occlusion of the pilorus i usually followed by a severe intovaction characterized by hypochloresma arotemia and silalos. As yet we do not know the nature of the toxe substances in thi process where they are formed or their mode of atton or whether the training a use entirely to toxe destruction of body proteins or partly to the toxic nephritis Dehydration secondary to permicuous vomiting is another factor present in permanent occlusion and temporary spass of the pylorus Dehydration has been shown to produce an increase in the blood urea concentration.

In the case reported by the author the patient had applorospasm and vomited large amounts of brown is blood stained gastine secretion. Anuna developed with a blood urea of 17 mgm per cent. The injection of atropin and the administration of salt solution by hypodermochysis restored urnary function. The intoraction gradually subsided with a slow decrease in the blood urea concentration. The blood urea concentration of all ones of the decrease o

SAMUEL J FOCEISON M D

#### Fra r I The Diverticula of the Jejuno Ileum B t J S g 933 xs 83

The author suggests the following classification of byton beld diverticula () anomalous in general of the traction type secondary to some other ab dominal condition (s) enterogenous congenital in ourse a rusing primarily as soluted masses of cells ourse a rusing primarily as soluted masses of cells would be some solution of the control of the contro

Multiple false diverticula may occur anywhere be tween the duodenojejunal angle and the ileum They appear as thin walled sacs arising from the

mesenteric border of the gut and vary in size from that of a pea to that of an orange As many as several hundred diverticula have been found in a The origin of the sac is a pro single individual section hermation or protrusion of the mucous membrane at the mesenteric border of the gut through the substance of the muscle The sacs are usually empty or contain fluid chyme mixed with The relatively large stoma or neck of the sac provides adequate drainage for the fluid contents and this combined with the rapid intestinal peri stalsis in the small intestine doubtless prevents in spissation of the contents and complications such as are associated with other types of diverticula. In the late stages of the condition the size and weight of the sac may cause kinking of its neck and thus give rise to symptoms due to inadequate emptying Microscopically a section of the wall of the sac at the fundus shows intestinal mucous membrane cov ered by the peritoneum forming one of the leaves of the me entery Between the two there may be areolar or fibrous tis ue A fat deposit encasing the sac 15 common

The condition occurs in both sexes and usually after the age of forty years. The upper jejunum is usually aftered the larger diverticula occurring protimally. There is a definite relationship to the vasa recta. In several reported cases there was an intestinal stricture further down in the cut.

The author cites several anatomical facts to explain the predominance of these diverticula in the The longitudinal muscle in the upper sesumum is thinned out wasted or almost missing because the sejunum has a three times greater cir cumference to be covered than the sleum. This congenital disarication can be still further accent nated by separation of the mesenterial leaves by fat The piercing of the circular tunic by the arteries and veins to the gut produces a potential site of lowered resistance. In addition, the arteries to the sesunum are larger than those to the sleum. The additional factor needed i increased pressure such as is found in stricture of the gut constipation vesical straining and coughing. It therefore seems evident that the causative factor is increased in testinal tension acting along the channel of the artery or at the point where the longitudinal muscle is divaricated

Following a report of his own case the author discusses the symptoms diagnoss and treatment of
the condition. A prominent symptom is engastine
pain or a feeling of fullness from three to four hours
after meals. This disconficit is little affected by
the recumbent position. Flatilence borboyrum
guiging and rumbling are the most constant features. Melena is present in some cases. However
there is no constancy in the clinical picture. For
this reason and because most cases are asymptomatic
the condition is discovered accidentally during
operation for an unrelated condition or at post
mottem examination.

The treatment varie For asymptomatic cases in which the condition is discovered clinically dur ing to time examination the author believes that conservative medical treatment is indicated because most of the patients are elderly and not good operative risks and the majority pass through life without complications. In reported cases in which complications occurred they rarely proved fatal Fra er outlines the non-operative treatment in detail stressing the importance of careful follow up examinations at six month intervals. In the asymp tomatic case in which the cond tion is discovered accidentally at operation for another condition the treatment must depend upon the judgment of the surgeon When the patient is a relatively good operative risk the author believes resection of the affected gut should be performed. He is of the opin ion that operation is indicated in all cases in which the diverticula are causing symptoms and that in such cases the procedure of thorce is complete removal of the affected area with restoration of the continuity of the gut. He discusses the technical diff culties encountered in some detail. He states that only one case in four presents a motoms warranting operation

In discussing the value of the roentgenogram he says that a correct \ ray diagnosis is rare. He gives the reasons for this fact and describes a technique to fill the diverticula and render them visible.

Reconcludes by describing his experimental work in which he distended gut freshly obtained at autopsy with thin bismuth solution or oxygen. He was able to show that equal distention in the jepunum only. The artificial distertion in the jepunum only. The artificial distertion specification on the jepunum only. The artificial distertions proceed the second or second the second produced observed as sentile those found climically in almost every respect. They are produced most easily in the upper lightly and the produced most easily in the upper lightly and the produced the produced of t

T BANFORD JONES MID

Harkins H. N. Intussusception Due to an Invaginated Meckel's Directiculum 1 S r

Harkins states that Meckel's di extrudium and in hassisception are related by common but the conbination 1 infrequent. He reports a cases of the combined condition which were operated upon at the Uni early of Chicago Clinics during the past year and reviews 160 cases which he collected from the hierature.

The first ca exported by Harlan was that of a male miant seen months oid which entered the hospital with a history of bloody stoody conting adominal pain and signs of intestinal obstruction of three days duration. The illness began suddenly with nomiting and bloody bowel me emerits After an enema these symptoms disappeared and the child then emend almost well until twel or the child then emend almost well until twel or

hours before his admission to the bosquial sherid of the symphoms recurred this great pain. The ablomen as greatl ditended but always appliable and there a no ngolity. A bannwar repealed arrest of the barium at the splene feature and the bulboos expansion with the rupble feature signs in the center sugge tive of intressive on nafter the patients admission to the hospital as in tissues prior of an offer the patient's admission to the hospital as in tissues prior of a most lettern was found prolapsed through the ilectrical valle. This was required through the ilectrical valle This was reportion there was a Meckel's discriminary in 1 ft. The abdomen was closed without drains.

ch id is now well eleven months after the operation The second case was that of a male child of fire years who entered the bosoutal with yemine colicky pains about the umbilious and one time tion of thirts two hours duration. The places began suddenly with severe pain all over the abdomen Blood was returned from an enema and somiting occurred. The white blood-cell to pt was 16 coo to mass could be found on abd m. 1 or rectal examination. Operation performed thirts two hour after the onset of the condition through a right rectus sacision to ealed our iderable du dof a erous type and an ileocæcal intassusception about 25 cm long which was easily reduced. At the aper of the intususception there was an interted Meckel's diverticulum 4 cm long. The di erticulum was gangrenous. It was excited by an incision parallel with the lumen of the bowel. The abdomen was closed without drainage. For three days of er the operation the patient omited frequently He was given glucose and Ringer's solution subcutaneously an i rectally Faces and gas passed spontaneo isly on the third da Reco en was then uneventful and the child was well three months after the operation

Of the 160 cases of nitussuserption due to a myag nated Vectles di netrodium which were collected from the literature a statuscial and 18 was made of 141, 3s compared with the ordinary type of intressusception this type occurs more frequently runs a more chronic course which is often characterized b a mild attack one or two do a prior to the oneset of the major lines's cause of the statuscial more is consistent of the control of the cont

JOHN II JOSEN 71 D

Paul on M Th Present Status of Idi path C Ulcerati e Coliti with Special R ference to Etiology J im M 4 1933 Ct, 16-7

Chronic idi pathic ulcerat se coltis is a syndrore presenting fa rh constant s mptoms and sems and ha ring possibh a variable but no demonstrable spe rife cause. It m ol es the large intestin par t cul rly its distal segments and resembles thronic fincillary disentery of nically pathologically roent genol gically and in some respects scrologicall, and

facterial greatly

The theory that avitaminosis may be a cause of ulcerative c litis 1 not supported by clinical experience although the experimental evidence in favor of it is striking Vagotonia and d sturbances of cal cium metabel sm has been thought to play a rôle in the development of the condition. There is neither sati factory direct evidence nor properly controlled confirmatory evidence of a specific or primary etio logical association between any bacterium and chronic ulcerative colitis The definite connection between foci of infection and the condition remains to be proved both experimentally and clinically Howe er experimental data indicate the non speci ficity of bacterial influence. Recent v ork suggests that the greater and more prolonge I the blee ling regardless of the cause the greater will be the dimi nution of the flora and the more marked the relative increase in cocci. The cocci and to a les er extent the other surviving intestinal organisms normally present are probably responsible for a secondary infection

kecurrences are certain to occur in all but exceptional cases. The possibility of permanent cure is

remote

As the specific etiological factor remains to be determ ned there is no specific therapy and the therapeutic response 1 not pecific. Ilcostomy is regarded as the operation of choice and should be done earlier than is the usual practice. SALELAMN, MD

Ilosol k Neurogenic Appendiciti 1m J S g 1933 xxii 428

Hosos reports a careful pathological study of appendices which justical surgical inter ention but appeared gro six normal on removal Neurogeane appendictions to a pathological entity of the appendix characterized by the pre ence of one or more interstitual neuromats and often causing clinical signs characteristic of suppurative appendiction. Neuroma of the appendix is the most frequent cause of non suppurative appendictions it was found in 10g (59 p. per cent) of 314 consecutive appendictions in whi h the appendix showed no evidence of an acute nathammat r proces.

Other conditions classifed with non suppurative appendicitis are (1) end metriosis of the appendix (2) care not is and (3) infestation with the oxyuris

As a rule neuromaia f the appendix cannot be lient ted in gross section Microscopic examina tion show them t be small circular masses of non med llated in eve fibers and signidle shaped cells let ted within the mu cula 3 mucosx. Thes are a till located and if more than one a present they are connected with each other be strands of nerve a connected with each other be strands of some control of the stranger of t

Of the neuromata in the cases reviewed 60 2 per cent vere found in obliterate I appendices and 30 8 per cent in patent appendices. Lain varying from severe agonizing cramps to a dull ache occurre l in 48 2 per cent of the cases In 30 per cent it vas localize lat McBurney 5 p int Nausea was present in 25 per cent of the cases but vomiting occurred in only 25 per cent. The temperature pulse and respiration were generally within the normal limits Constination was a characteri tic symptom in 18 5 per cent of the cases In the others there was a history of diarrh ra during the attack followed by The white and differential blood counts were generally normal. In cases with a normal blood count and a normal temperature ac companied by gastro intestinal complaints and signs referable to the appendix the possibility of a non suppurative lesion of the appendix such as neurogenic appendiciti should be considered BE TAMES C I SHAFIROFF M D

Menegaux G Serious Accidents in Rectoscopy

(Les 1 t gra es le la rect sc p ) P

mtd P 933 1 95

The author reports the case of a man forty three

sears of age ho was subjected to recto copy be cause of alternating diarth at and constipation with loss of veght. Twenty bours after the examination a diagno is of general peritoriti was made and the abdomen opened. Leploration revealed a large mass at the rectosigmoid junction without evidence of perforation. Becau e of its size no attempt was made to resect the mass. Yet autopsy a diagnossis of general peritoritis following the rupture of a peri sigmoid ab cess was made.

In a review of the literature the author was unable to find a comparable case. Ho e er attention has frequently been called to the danger of perforation of the bowel and the rupture of an abscess when rectoscopy is done in the presence of pension of in flammation or inflammation of a rectal diverticulum

There are records of ten cases in which the normal rectum was perforated by the rectoscope. The site of the perforation vas always at the rectosigmoid function

To pre ent accidents certain contra indications must be recognized. The e are (1) diverticula (2) perirectal and pensigmoid inflammation and (3) rectosigmoil cancer. In the pas ing of the rectoscope force must be

avoided and a pr per technique use! The knee

chest position is the pos tion of choice

I erf rat n of the rectum is ratch evidenced by rectal hemorrhage. It is usually manufested by sulden very severe pain immediately or a short time after the examination O casionally markel shock is the first symptom. Follo ing the dag nosis a lo mil fine incis, should be made in the ablomen under spi all or general anasthesia so that a th rough exploration may be carried out. The perforation hould be closed and covered with perstoneum and the abdomen closed with drainage Peritonitis must be treated by drainage in the usual manner. Even when treatment is given immediately the condition is very grave.

MARSH W POOLE M D

Rankin F W and Priestley J T Prolapse of the Rectum A Sug 933 c m 1030 In an attempt to correlate and classify the basic

pathological physiology and various methods of treating prolapse of the rectum the authors reviewed the cases of prolapse of the rectum observed at the Mayo Chine in recent years. The cases were classified as prolapse of the rectal mucous mem brane prolapse of the rectum proper (proudents) to the produce of the rectum proper (proudents) as tent of the protrusion and intussisception of the rectosignoid.

Prolapse of the mutous membrane is more com mon during the early years of the than at any other time and particularly following debitating diseases. Prolapse of the mutous membrane of the rectum occurring in adults is usually associated with a preeasisting pathological condition of the rectum which causes excessive straining at stool. The nature of the condition is usually obvious on inspection of the involved area. Non-operative measures will usually cure this condition if known etiological factors are eliminated. Local impettions of alcohol are often successful when medical measures, fail

The prolapse of the rectum is characterized by the presence of all layers of the rectal wall in the protrusion. There are two distinct types. One type starts below the reflection of the pertinenum and is characterized by absence of a marginal select the other type begins above the reflection of the pelvic pertinenum and has a definite sulers laterally. The armst assonated with obstipation and subsequently in advanced cases with incontinence. Non-opera two procedures may be pallative but are not curative. The following types of operative procedures have been suggested.

r Operations for narrowing the anal aperture and adjacent rectum 2 Procedures attempting to strengthen the

2 Procedures attempting to strengthen the rectal supports from below 3 Fixation operations such as rectopery

4 Operations directed toward cure by resection of the prolapse

5 The operation suggested by Moschcowitz in which the cul de sac of Dougha is obliterated. This operation has yielded very satisfactory results. In the last five years at the Mayo Clinic it has been employed in nine cases of major rectal prolapse. Intrisvence the operation of the rectosigmoid is not a true

prolapse but is treated best by obliteration of the true pelvis by the Moschcowitz technique

Scarborough R A Pruritus Ani Its Etiology and Treatment A n S g 1933 xcviii 1 39

Pruritus ani is the symptom of localized itching about the anus However it is not a clinical entity due always to the same fundamental cause Accord ing to the earliest theory of its causation ! has a hysterical or neurogenic basis Some believe it is referred sensation due to disease in an adjacent organ such as the prostate s minal vesicles bladder or urethra In the author's opinion this theory of reflex origin is difficult to accept. Direct visual in spection of the entire length of the anal canal, the mucutaneous line and at least the lower a m. of the tectum with the anoscope is imperative. Expension has shown that there is always a local cause for the itching The essential factor is the presence in the anal canal of an irritating secretion or discharge Among the factors re-ponsible may be included a relaxed sphincter an muscle prolapse internal hæmorrhoids external hæmorrhoids an infectious discharge erosion of pockets of dilated mucosa by a foreign body and small fiss ires or sinus tracts

The methods of treatment are as numerous as the theories reparding the origin of the condition Con vanced of the constant presence of a local cause the author is convinced also that treatment for perma nent relief must be directed toward cure of the local cause Treatment of the secondary changes without removal of the primary cause results only in temporary improvement. One such type of treatment is irradiation Extensive burns following irradiation constitute convincing evidence that irradiation may do great harm. Ultraviolet light vaccine and colonic flushings appear to relie e but do not cure the stehing Complete relief for periods of from three to twelve months may be obtained by blocking the sensory nerve endings of the anal and penanal skin but unless the causative lesion is remo ed the stching ultimately recurs Simpler and more effective methods of blocking the sensory nerves such as the injection of alcohol or some sclerosing or anæsthetiz ing solution may also gi e immediate but not permanent relief Salves and ointments are at best only palliative

In the author's method of treatment a careful examination of the entire length of the anal cash is made with the lighted anoscope the cause of the abnormal irritate e discharge. Treatment is then instituted for correction of the local lesson. As a rule surgical measures are necessary.

Of 304 patients seen at the proctological dime, to per cent suffered from localized and atthing \(^1\) definite local cause was found to account for its pruntus in all but r case. Treatment was under taken in \(^6\) cases. In \(^4\) cases patients the substitution of the local injection of the loc

Bensaude R Cain A Oury P and Poirier A. Cancer of the Anus (Le canc r dels u) P mid Par 933 N 92 1837

This article is based on a study of 143 cases of cancer of the anus. The lesions included cancers of the mucocutaneous margin and cancers of the anal canal Most of them were pascement celled epithelion mata but some were glandular cylindrical celled epithelionata. While the 2 types often cause the same symptoms: the cylindrical celled epithelioma yields only to radical existion whereas the pascement celled epithelioma is radiosensitive and may even be cured by radium or X ray irradiation.

Cancer of the anus is sometimes secondary to can cer of the rectum but is usually primary in the anus It has not been found in persons under thirty years of age. It is most common in the fifth decade of life The ratio of anal to rectosigmoid cancer is 1.57 Cancer never develops in normal issue but may occur at the site of chronic pritiation an old tumor amarganal poly or a fistual. Hemorrhood do not

seem to be a cause

In 58 of the case reviewed the first symptoms developed from two months to a year before the first examination. Larly compliants were functional disturbance anal pain more or less profuse harmor rhage from the anns a false desire to deficacate con supation and symptoms attributed to hemorrhoids. In 2 cases the first sign was ingunal ademopathy

The anal pain which is perhaps the dominating symptom has been called synneteraloa. It is not constant. It occurs mainly during efforts at defacation but may be prolonged after defacation. It may be piercing or burning or accompanied by itching and a feeling of weight or the presence of a

foreign body in the rectum and may radiate toward

In a small proportion of cases the condition is pain less and the patient seeks examination on account of a tumor mass or ulceration at the anal margin Cancer of the orife can diarging of the anus may be found in any part of the circumference of the anus were in the commissions. It is of a main types one with a protruding calullower appearance and the other showing ulceration with loss of substance a red base and undertimed edges. Various atypical forms of flat erosion and flast area are found. The margin it may extend into the and crimal as far an arise had simulate a seneral wart or cond-barrior. Or canonally it presents a pseu lobermorthoid or pseudophilegromous appearance.

All tumors of this type have 2 principal characteristics one a woody hardness and the other a cancerous extension or permeating infiltration which can be felt externally or on rectal or yaginal ex-

amination

In the early stage cancer of the anal canal requires careful endo copic examination with a speculum Three main types are found vegetative ulcrous and infirating. The inhibitating type which is difficult to diagnose occurs in the upper actionately of the contain and is surrounded by orderna contenting of the contain and is surrounded by orderna contenting of the contain and in the present property energic the canal without hopping completely energiate the canal without hopping the present and the contained of the present lymph nodes where recurrences may develop after its excusion and has a gave prognosis. In ordinary

anal cancer the ly mphatic extension is toward the ingunal lymph nodes. In some cases the cancer spreads to the ampulla of the rectum invades the inchiorectal fossa and spreads into the bladder causing urnary symptoms. In others it spreads on the surface into the skin and the anal ornice loses, all normal structure and becomes a neonlastic mass

extending along the perneum Biops whould be done in every case and the treat ment based on the findings of this examination. In payement celled epitheliona radium therapy, should give excellent results. Of 20 patients treated at the Radium Institute in the period from 1921 to 1932 inclusive 16 were women. Light remained free from recurrence 1 after ten years 3 after five years 2 after two years 1 after one and a half years and 1 after a year. In 8 recurrences developed mainly in the pinmary site or in the glands in the liac fossa and the directorused nodes In 4 the condition was

The results of excision of cylindrical celled

Kellogg Sperd M D

#### LIVER GALL BLADDER PANCREAS AND SPLEEN

Zappala G The Antonucci Method of Cholecys tography (La col cistografia secondo il metodo Antonucci) Polici n Rome 1933 xl e2 chi 54

The author reviews 300 cases of cholecy stography by the Antonucci so called rapid method

Both the intravenous and oral routes of ad ministration were employed. The procedure consists essentially in the use of tetra iodophenolphthalein combined with glucose and insulin which for some unknown reason accelerates the hepatic elimination of the dye into the gail bladder. This activating phenomenon has been the subject of considerable controversy in literature. Some ascribe the mecha nism to the hyperglycamia and others to direct stimulation of the hepatic cells

Of the 300 cases studied 100 had subsequent operative control. The incidence of error in these too cases and in the cases of 26 normal individuals subjected to the intravenous method was 0 per cent whereas in cases in which the oral method was used.

it was is per cent

not cured locally

The author concludes that the Antonucr rapid method of cholecy stography is reliable practical and simple and causes no greater systemic disturbances than any other method. The dye is demonstrable in the gall bladder half an hour after the injection and sufficiently concentrated for cholecy stography after two or three hours. George C Float MD

Gilbert R and Demole M J Fifty Rapid Ci ole cystographies holecy tg phes tu n) Presse med Pa 1933 No g 183

One inconvenience of the usual method of chole cystography is the long time required after the injec-

tion of tetra iodide before the gall bladder becomes visible. Vi ibility generally requires twelve hours. Antonucci has devised a method by which the gall bladder: rendered visible in from half an hour to an hour and reaches its maximum visibility in two hours.

The patient is usually prepared by three or four dats of a diet poor in carbohydrates but that step may be omitted. On the day of the text he is given an intravenous injection of 12g c cm of a 6g per cent glucose solution followed by an injection of lettra solide. Ten minutes latte he is given so units of insulin subcutaneously. To prevent accidents both the glucose and the text nodide ze injected slowly each injection taking from fifteen to twenty minutes.

The glucose provoles a transitory hiperglicamia which hastens the passage of the tetra todde through the liver. The diet poor in carboh, drates decreases the liver glycogen and in this way re inforces the act on of the glucose. However, it is not strictly necessary. The insulin furthers the excretion of the

ordered bile from the liver into the bile ducts. The authors have used this method in fifty cases. The results were negative in 47 per cent. This is a higher percentage of negative results than with the Graham method. However the rapid method gives positive results in some cases in which the Graham method gives negative results for example cases the hyperty formula hastens the passage of bile into the gall bladder and the gall bladder is empty when the first roengerongram is taken by the slow method.

Harve value positive rap d colory streams.

Harve value positive rap d colory streams are the conclusive a negative rapid choicy stor am is not When the negative results in the cases re-sever were controlled by Sand trom stractional oral method it was found that many of them were positive. With the Intonucir method some cases that are negative at the end of two hours become positive at the end of five or six hours. Therefore it is seems proble that cholectstography will be negative. Sand stroms night of is the method of choice but if a normal gall bladder picture is expected the rapid methods preferable. Arnex: Goss Wonex. 4 pd.

Milani E Cholecystographic Data in Strawberry Gall Bladder With Surgical Control (I data colec tografic della esce! a frag I n l aglio del cont oll op att ) Rad I med 933 x

The author examined 400 choices tograms 0 of which were controlled operatively. The cond tions in the 9 cases coming to operation were as follows stranderry, all bladder 16 cases: choicid thasis 5 cases chronic choices tuits 15 cases choiced thasis 5 cases through the produced that is the produced that is the produced that 100 cases 1

Milani revie s the gross and microscopic pathological changes in strawberry gall bladder and the various theories regarding the cause of the couton. He then describes the clinical picture bits

The findings of \ n ny examination are consisted in detail. Evidence of the videoco v

In strawbern gall bladder direct visibility of the gall bladder with renderness over the organ is so common and was never noticed by Milain. Because of their normal variations the form size and lost tion of the gall bladder are of little s gmifcance. De lay in the appearance of the shadow i not utono mon. The shadow is usually discrete and rarely absent but as a rule us pale Occas ondity it has as areolar appearance. The intensity of the shad when the fund of the high of the high order that the fund of the high of the high order that the fundamental of the high of the high order that the presence of an intense shadow when the first method is used is not always an indication of a normal gall bladder wall

In a number of cases both the slow Graham method of cholecy stography and the rapid method of Antonucci were u ed The latter method depend upon the intravenous injection of the iodine-con taining due in a gluco e solution (50 gm. of glucose, 123 ccm of a 40 per cent gl co e solut on) The maximum vilibility of the gall bladder is reached about two hours after the injection The glucose presumably causes a marked increase in h er fanc tion Besides being an important test of die-con centrating power this is a test of the peed of con centration of the load which the gall bladder is ab e to carry Strawberry gall bladder s not shown as rapidly by this method as by the Graham method, probably because the diseased gall bladder wall is unable to handle the rapidly flowin bile and A LOUIS ROST MD concentrate it

Twiss J R and Greene C. H. D tary a d Med cal Manag m nt of D seases of the G ii Blad dr Newer Point of Vew J (m ii 4 933

Among the factors predisposing to the detel pment of cholecustits and cholehthiasis are bilary stassis infection distributions of pigment excretion cholesterol metaboli m obests and pregnance.

It is well known that disturbances of cholesterol metabolism frequently result in the formation of gall stones and a large amount of work has been done on this phase of cholesterol metabolism While no final agreement has been reached it appears reasonably certain that the liver has a regulating function and is active in maintaining the cholesterol content of the blood at a fairly constant level There is considerable evidence also that with the prolonged ingestion of foods rich in cholesterol hypercholesterolamia develops and is accompanied by an increased excretion of cholesterol in the bile The is produced also by diets rich in fat Diets low in cholesterol tend to reduce the cholesterol content of the blood Rapid reduction of neight in obesity appears to produce a hypercholesterolæmia by liberating considerable quantities of stored choics terol. Therefore the weight reduction of an obese patient should be undertaken gradually

In discussing the dietary treatment of gall blad der di ease the authors give five bland sample diets three of which are low and two of which are high

in cholesterol

Bes des dietary treatment general hygienic measures are indicated to prevent biliary stasis and prevent or relieve inflammation of the gall bladder or bile ducts and operation is indicated to remove calculi

The prevention of bihary stasis is accomplished by active evercise and the avoidance of constipation Inflammation is best prevented or relieved by the re moval of foct of infection and the use of saline catharities and alkaline bowders

G DANIEL DELPRAT M D

 $\begin{array}{llll} \mbox{Popper II L} & \mbox{Pancreatic Secretion in the Bile} \\ \mbox{P ss g s Its Significance in the Development} \\ \mbox{Of Acute Pancr at c Diseases (FA k-rassaft in den Gall innegs S n p thogen t sche Bedeutung f r de Entsteh ig d k t n F n k a rk n k n k n l n l ch f l l Ch tog33 cl 660 \\ \mbox{Fig. 1.6} & \mbox{Fig. 1.$ 

Th sattcle is based on examinations of bile for the presence of pancreair eferments. Because of the intracary of the method lipase determinations were undertaken in only a few instances: The stalagmo metric method of Rona and Michaelis was employed Tipsian determinations by the method of Folid and Gross can be made only on non inflammatory bile containing little prote in Of chell importance is the lastic determination. Unlike try psin the disablate determination Unlike try psin the disablate determination Unlike try psin the disablate datased detains unchanged for a long time. The disablate detains the disablate of the disablate datased detains unchanged for a long time. The disablate di

Examination of the ble for the presence of pain creative fements was made in 150 cases. In 2x of these the bile was obtained from the gall bladder and n 2 from the common duct and the gall bladder of inflammation with a swith or authorit endered of inflammation with a swith or authorit endered from patients with tumor of the gall bladder or panciess 16 from patients with acute pancies in dieses and 1 from a patient with no preforative dieses and 1 from a patient with no preforative

biliary peritonitis. Thirty six were of tained by puncture in the course of an operation for a condition not involving the biliary tract or pancreas. Only disastase values which exceeled the upper nor mal serum content by 64 units were considered. The pathological biliary disastase values waned between 64 and 64 good ounts but in the maiority of the cases.

were between 256 and 4 006 units Seventeen per cent of the 210 specimens examined showed increased diastase values. As cases of acute pancreatitis should be subtracted the diastase values in the bile were pathological in 10 per cent of the cases (143 cases of cholehthiasis 5 cases of gall bladder or pancreatic tumor and 32 ca es of normal gall blaider) The increased values were found in cases of inflammatory gall bladder di case cases of practically non reacting cholelithiasis and in a cases in which the bile passages vere normal. The results of hi tological examination of the gall bladder and hacteriological study of the bile in cases with increased diastase values allowed of no conclusions when they were compared with the e in cases in which the ferment was not present and there was no difference in the anamnesis and clinical and operative findings in these cases \ choledochus stone was found only once in the cases with increased diastase values. The stone in this case was not at the papilla but beneath the level at which the cystic duct

The increase of diastase was independent of any bacterial or cellular admixture. As increased dia stase values occur in the blood without an increase in the bile and as the diastase value in the bile may be increased without a noteworthy increase in the diastase in the blood, the author concludes that the increases are caused by the admixture of pancreatic juice with the bile and not by excretion through the liver Following operation in a case of acute pan creatitis increased hastase values were found in the urine and blood but no increase was determined in the ble from the hepatic duct. As in 2 cases of choledochus drainage only a transient increase was found in the diastase value in the bile from the liver the author concluded that pancreatic secretion had entered the bile through the duct of Wirsung I or this to occur a common orifice for the choledochus and the duct of Wirsung is essential. This condition was proved at autopsy by the author in several cases

The author does not believe that primary, injury to the bile passag, a is caused by the penetrating pancreatic secretions. In support of his contention he cites the fact that increased distastes values were found in the cases of persons with a normal bilary point out that the the course of inflammator, it easily to be considered that the course of inflammator, it was not increased than when they are not increased.

In order to exclude the possibility of secondary injury of the liver from the admixture of pancreatic secretions in the bile. Popper later carried out the Bauer galactose test for liver function in every case with increased diastase values. No noteworthy injuries of the hepatic parenchyma could be demon strated by the method. Neither interus nor a considerable uroblinogenura was observed in any case. The author therefore rejects the theory of a relation him between guite and chroner purie, of the held.

Ineaution therefore rejects the theory of a relation hip between acute and chronic njury of the bile passa, es and livet and the admixture of pancreative the passa, est and livet and the admixture of pancreatives a relationship between the affire of parcease relationship between the affire of parcease are also to the bule and both non perforative bilary personal and acute pancreatitis. He states that one perforative bilary personal cours only when there is a marked stass of the ferment containing bile. This occurs usually in ca es of stone at the papilla According to Blade bile which contains pancreatic ferments is more diffusible but does not produce non perforative bilary personalis in the absence of stass. Itimary mury to the wall of the gail bladder is probabilly unnecessary for the development of non

perforative biliary peritonitis Of the author's 18 cases of acute pancreatitis increased diastase values in the bile were found in 16 From this fact Popper concludes that in addition to stasis a communication between the bile and pancreatic passages is responsible for the develor ment of most ca es of acute pancreatitis absence of pancreatitis in his cases with bile contain ing nancreatic ferment he attributes to the absence of stasis Acute pancreatitis and non perforative bil ary pentonitis despite their common pathoge netic essentials hin ler each other a development apparently non perforative biliary peritonitis occurs only in the absence of pancreatitis and the pancrease is e pecially resistant. Access of bile to the pancreas does not appear to be es ential for the development of acute pancreatitis Pancreatitis probably results from trypsin activation in the hile nassages and extension of the process of ferment activation by way of the lower intrahepatic portion of the chole dochus to the pancreas possibly by diffusion

HELLNER (Z)

Eurén R Acute Diseases of the Pancreas in Rela t on to Operations on the Stomach and Duo denum (Uebe akute Psul. eas it alway n im Zusammenh ng mit prati en E griff n am Ve trikel D d mun) Ad k p Stod 333

xxm 5.3

The author discusses the cases of acute pancreatic conditions following operat ons performed on the stomach and donednum at the Upsala Clinic in the period from 102 to 1022 and gives a bute for two the hiterature on the ethological and pathogenet factor of such complications. In discussing the operative traumata which may be followed by acute pancreatic cli case he cites chiefly the wo k of Clarmont Walkel and Usland.

Of 616 operations on the stomach and duodenum 9 were followed by a more or less serious acute pot toperative condition of the pancrass Eight of the latter were resections and; was a gastro-enterestomy. A few doubtful case are also reported. In dis-

cussing the etiological relationship between operative fraumata and the pancreatic changes found in the cases reviewed the author emphasizes that the nature of the relationship has not been defined determined.

On the basis of the literature and the cases re viewed Euren draws the following conclusions

I Deep penetration of an alect into the pa-rest necessitate great care in the choice of operation it cases of ulers penetration of the first the stomach the danger is considerably see Freio crescion should be performed when people. It cases of dodecal and polinic ulers' deep penetration of the dod on the second of the document to fit down in it be a world gastro-enterostom or pethaps rescue to a case theration is the state.

or extinsion is test

2. Sharp excision of the base of the ulcer from the
panctess is contra indicated. Because of the danger
of an unintentional deep effect fulguration of the
ulcer base remaining, in the pancreas is contiindicated and unless left entirely alone the bise
should be merely carefully washed out. In every
case it should be drained.

3 The treatment of the pancreas in cases of malignant growth encroaching upon surrounding tissues remains a problem the solution of which depends chiefly upon the judgment of the surece.

4 Such injuries as cutting or suturing into the glandular parenchyma incarceration of the caps.

In the saturing of the duodenal stump and stro graction upon or compression of the parenchyma must be avoided so far as poss ble

5 Even in cases of apparently slight lesions of the glandular tissue the surgeon should always attempt to obtain good drainage and should refrain from primary suture

#### MISCELLANEOUS

Davis G G Abdominal Em reencies Dealing Especially with Abdominal Injuries I tenal I Med & Su g 933 xl 1 525

Abdominal emergencies resulting from e tendiviolence the so-called internal injuries are relited by frequent and may be caused by localized of diffused v olence. The lesson depends upon the ertent type and site of the impact.

If six hours after an abdominal injury there is abdominal pain accompanied by omining or a timing pull or increasing rigidity of the abdominal wall exploration is indicated. Localized rigidity of the abdominal wall over the site of a lesion is of great impo tance. Operation should be deferred until the primary shock has subs ded

In systematic examinations attention should be directed first to the histor. This is important be cause the mechanism of the injury is frept the pathogomonic Circumscribed trauma for in stance maj cause subcutaneous rupture of the small intestine whereas all injuries of the li et spleen pancreas and blood vessels are the result of a trau

matizing crushing type of force applied over a broad surface

Some of the symptoms and signs of internal injuries are common to both lesions of parenchy matous organs and lesions of hollow viscers namely those

of shock and those of hamorrhage

Injuries to the dorsal spinal cord and spinal col unn also are accompanied by abdominal rigidity in nipures of the liver there may be a spile or mil tiple leu in 8.4 as rule the capsule of the liver is lacerate! The possibilities of operative treatment of 1 er wound sar erather limited! If a clot is found to a laceration of the liver it should be left undisturbed. Virtue Heeding is best constrained with the understanding the state of the liver is a laceration of the liver it should be left undisturbed. Virtue Heeding is best constrained to the united of the liver are stally on the liver are usually not bless the liver are usually not bless.

The incidence of involvement of the sphern in of the birst. The diagnosis of spheric rupture is based on the signs of severe internal bleeding following trauma in the region of the sphern. Hecause of the anatom, of the sphern the tears are frequently transverse and multiple.

treatment

In the grists intestinal tract the small intestine is injure! most frequently the large intestine next most frequently and the stomach least frequently Rupture of the stomach occurs usually when the stomach is full. It is accompanied by severe shock and aymptoms of hemorrhag which persist after textiment of the shock. The pain is located in the epizystrum. There is marked rigility of the upper abdriven.

In the li gnosis of gastro intestinal perforati n \text{Ya} is estimati n its of great aid. Almost without exception every case of an acute abdominal condit n with a free gas bubble is a ca c of perforative perit autis from the rupture of a gas containing viscus. This sign is detected quickly with the

fluit cope

In care of internal injury due to a non penetrating to evoperation should be preceded by treatment for the shock. There are two signs of particular importance to influence of the shock and the should be a selected for for immediate later/ference. One is permanent and progress triply increasing revixes a said frequence of the palse use like associated with a ubnormal temperature resided pallor and increase anniety personnel and in the ordinary of the progression of the palse used to be a second or responsible of the palse used to the palse used to

The discount of raginer is the surround like it is the discount of raginer is the surround in the result of the surrounding the present in the surrounding the

In intraperitoneal rupture the air escapes to the highest point of the abdominal cavity or shifts as the position of the patient is changed. In extra peritoneal rupture the air follows the peritoneal rupture the air follows the peritoneal cavity. In the absence of rupture of the blad fer the air remains within the resultant outline of the bladder.

In rupture of the urethra there is inability to void a catheter cannot be passed a small amount of fresh blood follows removal of the catheter and the blad

der is distended

The author condemns treatment of the wound through a perincal incision as this method causes scar tissue formation with stricture and resulting nathological changes in the bladder ureters and kidneys. He uses a male and female sound and a eatheter. The male sound is inserted through the penis and the female sound with a cupped tin is inserted into the urethra through the bladder fillowing suprapulic cystostomy. When the two sounds meet and click the male sound is engaged into the cuoped end of the female sound. The male sound is then you led into the blad ler A silk or cateut suture is passed through the drilled hole of the male sound in the blad ler and a rubber catheter connected to the suture. The sutures are tied and the catheter is introduced from the bladder through the penis and left in place. The cystostomy is continued for a number of days for drainage

CHAPLES I DUB IS M D

Lewis D a d Trimble I R Subcutaneous In Juries of the Abdomer 1 1 g 933 xc 1

The authors discuss injuries of the liver pleen intestines kidney and bladder. The mortality of ubcutaneous abdomin I in

juries is quite variable. During the period from 1855 to 1866 it ranged between 60 and 70 per cent. By 1900 it hal been reduced to 10 per cent. In a report on 136 cases seen in a period of twenty three and a half years which was published in 1925 it was given as 21 0 per cent.

Force applied to a cir unweithed area is more aptored to injure the interesting or a skidner while force applied more diffuely of a skidner while force applied more diffuely of a skidner while force applied more diffuely of a skidner is more at to injure the he is splien paneras of 11 lost keeps. Some of the viscera are protected by their post in a facility of the viscera of the old which because of faith cannot change the reform or location when force is applied. One of the conference is applied. One of the conference with which because of the conference with which he will be increased frequency with which explication lapar it outcased frequency with which explication lapar it outcased frequency with which explication lapar it onlines are performed.

In the cases of subert reous injury of the lear which are reviewed by the authors the tree irrent consisted of packing with gaue or blind the suturing or suturing alone. To and the excape of the from the if the of the laceration putta percha was employed A favorable prognosis in complicated cases depends upon early diagnosis and early control of the hamorrhage

Ruptures of the spleen were treated preferably by splene tomy The prognosis of such injuries depends upon the seventy of the associated injuries and the time of operation. As in other severe intra abdominal injuries operation should be performed early but not until the patient has recovered from shock

Injuries of the intestines are common The small intestine is more frequently injured than the large intestine and the large intestine more frequently The force is usually circum than the stomach scribed As a rule the patient gives a history of being kicked struck by a stone or run over by an auto mobile Occasionally a bursting rupture is found The intestinal loop may be ruptured from within by its contents of liquid and air A bu sting rupture of this kind i usually long extending over a considera ble segment As a rule the application of the force is followed by shock but in some cases the patient may walk into the hospital and show no clinical evidence of impending dan er \ ray examination is a valuable aid in the diagnosis of this type of injury as it will demonstrate the presence of free air in the perstoneal cavity. If recovery occurs there will be very few if any sequelæ Among the possible sequelæ are postoperative herma and stenosis of the bowel

Rupture of the Lidney may be a subcapsular leston or a complete division of the kidney substance. It is always followed by hæmatuma Subcapsular in juries may be treated conservatively but the more

severe lesions require operation

Runture of the bladder is usually caused by a fracture of the pelvis or an external blow to the lower abdomen Two cases of hydrostatic rupture were observed by the authors Some persons with rupture of the bladder suffer immediate shock whereas others ar able to walk to the hospital Early diagnosis may be aided by the finding of blood in the catheter ized urine and by cystoscopy Str ngury blood in the ur ne and pain in the lower part of the abdomen are signs of the greatest significance. The treatment indicated is closure of the wound as soon as the rationt s condition will permit

PUL W GRE ET MD

Ochsner A. and Graves A M Subnhren c Abscess in 5 g 033 x 112 96

This article is based on 3 3 2 cases of subphrenic abscess collected from the literatu e and 50 cases

observed by the authors

Subphrenic abscesses occur much more frequently than is generally supposed but as most subphrenic infections subside spontaneously the incidence of subphrenic infe tion without absces formation is much higher than that of subphrenic infection with abscess formation Subphrenic abscesses o cur 3 time more frequently in males than in females In the authors series of cases no racial predisposition to such abscesses was apparent Thirty two per cent

of the patients were in the fourth decade of hie a 4 70 per cent between the ages of nine and forty years Subphrenic abscess usually follows an intraten toneal suppurative process. The most freque ! antecedent conditions are perforated appendicts and perforated lesions of the stomach and do denum Of the total number of cases reviewed anpendicitis and perforated lesions of the stomach and duodenum were the original focus in 50 and 54 per cent respectively The incidence of subphren cabscess complicating acute inflammation of the appen dix varies in collected series of cases from 0 34 to 6 I per cent The average incidence in 11 of care of acute appendicitis was I I per cent The incidence is undoubtedly higher than these figures indicate be cause in many cases a subdiaphraematic complica tion 1 not suspected. In the authors series of cases in which positive cultures were obtained from the subphren c space colon bacilli were present in 40 per cent streptococci in 40 per cent and staph lococci in 20 per cent The most frequent s te of subphrenic absce s is the right posterosuperior space This space was involved in 28 8 per ce t of the col lected series of cases and 60 per cent of the authors cases

The clinical picture of subphrenic abscess is generally one of continued infection followin an intra abdominal suppurative process. Of the cases reported by the authors the onset was sudden in 16 per cent and insidious in 14 per cent In , per cent systemic manifestations continued followin drain age of the original suppurative process. In addition to the systemic manifestations of infection terwere localizing signs such as a sense of pressu e in the upper abdomen or loss and difficulty in breath ing especially on deep inspirat on Persistent ten derness over the right twelfth rib or alon the right costal margin in such cases is indicat e of ab phrenic infection Limitation of respiratory move ment together with elevation of the diaphragm occurs early Diagno tie aspiration i cura indicated because of the danger of co taminating un mol ed portions of serous cavities. Intrapleural complications are usually due to delay of diagno is and treatment of subphrenic infection

In all cases of subph e.u.c infect on in which suppuration has not occurred conservate e treatment is indicated. When suppuration has developed in cision and drainage should be done with care to prevent contamination of an uninvolved cavit 072 repo ted cases of subphrenic absce s in which non-operative teatment was give mortality was 9 1 per cent whereas in 1 603 cases in which d amage was established it was 33 6 per cent In the collected series of 89 cases I subphrenic abscess drained without contamination of the pleural or peritoneal cavities the mortalit was 21 per cent whereas in 305 cases in which trans pleural dra nage was established it was 30 per cent and in 33 cases with transpersioneal dramage it was 3 5 pe cent In the authors senes the mortal ity following extraperitoneal transpleural and transperitoneal dramage was 13 6 50 and 41 6 per ent respectively. In order to prevent containing ton of uninvolved portions of the pleural and per inceal cavities subphreme absersess should be drained both extraperitoneally and extrapeurally. In cases of absecss located in the right postero superior space this can be accomplished best by the retroperational operation. The authors describe this operation in detail. In 31 cases in which it was performed b them the mortality was 97 per cent

W Imot! P B trand I and late! J Abdomi nal Ganglioneuromata (Ie g gloneu me bdomi u) J de cl 933 lu 699

The literature on abdominal ganglioneuromata i briefly reviewed from the first description of these tumors by Loretz in 1870

Ganglioneutomata usually ari e from the sympa thetic nervous system and rarely from the peripheral sympathetic nerves. They develop occasionally in the central nervous system neck, thoray, but most frequently in the abdomen from the retroperitoneal region.

The authors report the case of a gril sixteen and a half years of age who was subjected to laparotoms eleven years previously for a tumor of the left flank As the growth was believed to be a surcoma mothing was done—it a second operation a neoplasm meass uring 38 cm in its greatest drumeter and wighing 2 kgm was removed. On section the tumor was found to be a ganglioneuroma. The appearance of micro copic sections prepared by different methods is described by the author in detail.

MAR IN POOLE MD

#### GYNECOLOGY

#### TITEDIIS

Morgan T h Studies of the Movements of the Uterus J Obst & Gnac Br Lend 1033 2 1106

A study of utenne motility was made by preparing utenne fixtular in rabbits and making records of the movements of the uterus in the unane thetized animal. Four methods were found to yield satisfactory results. The recording method adopted was the use of a surface tension water manometric.

The influence of the sympathetic nervous system on the interns was demonstrated by the fact that adrenalin constantly produced a well marked con traction of the uterus when given intravenously in doses of a r cm of a r to ooo solution An im mediate contraction occurred and was followed by a period of tetany with a gradual return to normal within four minutes in the average case. In animals which had received an injection of ergotoxin a sub sequent injection of adrenalin within biteen minutes produced no response The inhibitory response to adrenalin was found to be inconstant For complete paralysis of the augmentors fibers a larg dose of ergotovin was necessary. Intravenous injections of or com of a troop solution of pulocarpin pro duced an effect exactly similar to that produced by adrenalm The effect of pilocarpin while unaffected by a previous injection of ergotorin was completely cancelled by a previous injection of stropia How ever the latter had no effect on the action of adren alin Section of the hypopastric nerves produced no alteration in the response of the uterus to these

The action of several alkaloids of cinchona were investigated. One milligram of quinine by drochlor ide caused a transient rise in the tone of the uterus with a rapid return to normal while doses of 10 mgm produced a well marked increase in the tone with increased frequency of contractions followed by a

return to normal in the minutes

The hormonal control of the uterus was demon strated by the use of non pregnant rabbits showing inactivity of the uterus When these animals were given from 50 to 100 mouse units of programon intravenously a return to marked uters e activity took place within twenty four hours in all In several of them in which fistule had been prepared and conhorectom, was done infrequent prolonged con tractions occurring with great regularity and with fairly constant amplitude were noted Estrin n do es of 100 mouse units injected into these animals produced records and timoushable from those ob tained in the cases of intact animals with a tive uter. This effect began to be apparent in four hours reached it maximum in ten hours an i began to de cline again in forty eight hours

Animals showing a marked degree of utera activity are in a state of heat a condition in which the concentration of cestim in the blood is increased. Within from sixteen to thirty hours after constitution that the uterus becomes completely quiescent. It the

remains in this state for sixteen days. The structure in the overs responsible for uterine quescence is

nrobably the cornus luteum

When extract of the anterio lobe of the pitular sland was injected into animals with intert overer and poor uterine activity the uterine activity by came that which is characteristic of cestors with a forty eight hours and the activity thus induced ber sisted for many days It is significant that whereas erstrin induced activity within ten hours extract of the antenor lobe of the p tustars gland did not se duce activity in less than forth et ht hours. Es tract of the antenor lobe of the pituitars eland in sected into cophorectomized animals failed to a est the activity of the uterus. Any effect on the vierus produced by the anterior lobe of the minitary cla. A must be produced through the overer. The a thor suggests that the extract and on more ne of the follicles thus increas ne the production of cestra. ROLA D S CROS VID

Watkins R E The Surgical Treatment 1 Cystocele and Prolapse of the Uterus with an Analysis of 113 Cases Suf Cl \origin in 1011 zill 1501

The author contends that prolapse of the uters, bladder and rectum occurs because of an openar, (hermal in character) in the pelvic disphragithrough which the organs descend Elongation of the uterine ligament and dilatation of the vagual canal develop secondary.

The de cen ling uterus carnes with it the bladder and cul-de sac Cystocele always accompanies prolapse and the correction of the cystocele is a major

part of the operate e procedure

To cure the herms the opening most be closed by a strength of the first must invariable follow attempts to suspend the uterus by sature or is fixation to the abdominal wall hyste ection or shortening of the humanests. In improperly selectic cases een extensive plastic operations on the two and the polyce outler are followed by failure.

The 3 degrees of prolapse require different types of operation. Moreover the type of procedure must be based upon whether the woman is in the child

bearing age or beyond

In the case of a noman in the child beam 5 are who has a mode ate degree of prolapse the bladde is separated from the anterior vaginal was 1 for the uterus the bladder fascia dissected out a 3 sutured the anterior vaginal wall sutured to the

cervix and the perineum repaired and in many cases the ligaments are shortened through the ab-

In the cases of women beyond the menopause who have a uterus of pormal size which does not protrude completely through the vamna the interposition operation of T J Watkins is the operation of choice

In cases in which the uterus is small and the cervix protrudes completely into the vagina the Mayo method by which the uterus is removed and the ligaments are interposed between the bladder and va ina has been found satisfactory. Permeorrhaphy is also called for in both of these groups of cases

Of 113 women whose cases are reviewed by the author 41 had undergone surgical treatment previously and of these 15 had had a previous repara tive operation. In the case of 1 a complete vul vectomy for carcinoma had been followed within a

year by complete prolapse

Complete prolapse was present in 31 (27 per cent). It is this group to which special attention is directed. Two of the women had large enteroceles and many others had smaller enteroceles. Hypertrophy and clongation of the cervix were present in the majority. The internostion operation of Wathins was per

formed in 36 cases the operation of Mayo in 31 advancement of the bladder with a plastic operation on the cervix and perineum in 18 and some other

type of procedure in 28

There has been no mortality Follo up studies were made of 50 of the 113 patients A complete cure was obtained in 34 cases and a satisfactory cure with minor defects and symptomy in 13 In 2 the operation was followed by a small recurrent cystocele and in 3 (in all of which the Mayo operation was done) by an enterocele In 3 (6 per cent)—in 2 to which a way nopersy was performed—the result was a complete failure

The author emphasizes the neces ity for careful closure of the cul de sac. After removal of the uterus he d sects out the hermated cul de sac ties it off as high as possible and then unites the utero sacral 1 gaments according to the method of Ward

G PAUL LAROQUE M D

At mas N and Emanuel A Treatment of Chron ic Cervicitis by Electrocoagulation R sults (T tem at des cervi t sch omques par lei tro c l tion é ult ts) Res faç de grée t d but 933 t 1 865

In electrooagulation the its use are coagulated by the beat of by firequence currents This method of differs from other heat and caustic methods in the fact that its action is everted in the deep tissues and not on the surface. There is no destruction at the point of contact with the electrode. The latter report of contact with the restricted. The latter reduced within the its use by the contact of the conta

If the current is passed between electrodes of different sizes the heated cone is a come the base of which is the larger indifferent electrode and the aper of which is the smaller active electrode. This is called the unpolar method. If a small electrodes of the same size are used they both act as active electrodes. All of the part included between the zelectrodes is heated and the results are obtained more rapidly than with the un polar method. This is called the bupolar method.

Any diathermy apparatus may be used for the treatment A very high power apparatu is not required as the necessary coagulation can be obtained with a current of 300 ma. The types of electrodes used are described and shown in illustrations.

The authors have treated over 300 patients by this method with uniformly good results. A dry whitish eschar form as soon as the current is passed After the tenth day the eschar begins to grow darker and by the twentieth day it has fallen off. The nationt should be watched at this time a hamor rhage is possible though not frequent. The authors have never observed hamorrhage when the bipolar method was used. After the eschar has fallen off granulation to sue forms and epithelization takes place Cure is complete by about the thirtieth day The time required varies to a certain extent in different cases Examination of biopsy specimens forty days after the treatment shows an epithelium completely normal in appearance. No scar tissue is formed the tis ues remain supple and there i no interference with future pre, nancy or delivery

Electrocoagulation is the treatment of choice in chronic cervicitis It is contra indicated in the acute stage and in the presence of any acute inflam matory process in the pelvis. The technique is simple particularly when the bipolar method is used Since 1931 the authors have employed the bipolar method exclusively No preliminary prepa ration is necessary the treatment can be given with out anæsthesia and hospitalization is unnecessary A single treatment is generally sufficient to destroy all of the disea ed mucou membrane. No special care is required after the treatment. The patient should be warned that the di charge may become more copious and fortid for a while She should be told to take a daly alkaline douche beginning twenty four hour after the treatment and to return once a week for examination. In all of the cases reviewed rapid and permanent cure was obtained with no noteworthy complications. The discharge stopped and the cervix regained its normal rose color and elasticity AU REY GOSS MORGAN M D

#### ADNEXAL AND PERIUTERINE CONDITIONS

Le Lorie V and Durante G Dive ticula and S ptum Formations in the Fallopian Tubes (D rincul s et 1 150n ment t l re.) G & olog 933 xxxu 5 9

Congenital anomalies of the fallopian tubes are not rare. Accessory tubes have been described These are either closed at both ends—so called blind accessory tubes—which sometimes form a hydro parasalpinx and sometimes terminate in the cul de sac with one end and rejoin the main lumen at the other.

Other anomalies are a upernumerary ostium and a lumen running independently from the main tube for a certain distance and then rejoining the normal tube. These anomalies have been described either as accessory tubes or tubal diverticula. The authors report a hi tological study of such as anomalies.

The first cross ection showed a single and joirnal tube. The next section of closed a diverticular dilatation originating from the cavity of the tube. This diverticulum expanded more and more and then produced a constriction which ended in the formation of a septim. Thus were formed two ducts separated by a thin layer of connective is sue formed two formed two

Besides these con cental malformations there are also acquired duplications of the fallopina tubes Under the influence of salpungitis a firm e of the theat tatches itself to the opposite wall. The in flammation progresses slowly along the border of the deseased fringe which finally forms a eytum thus dwiding the lumen of the tube. When the inflammation pressits the fringe becomes thicker its an it invaded by vessels and its stroma undergoes from the control of the strong which is also that the strong which is covered with tubal nuces.

The accessory tubes the diverticula and the in fiammatory septa in the tubes have an important patholorical significance. They are frequently the cause of ectopic pregnancy. The aberrant tubes are sometimes the site of benin and manignant neo plasms.

In conclusion the authors call attention to the pos...ble confusion in the diagnosis between endo metrioma and accessory tubes or simple diverticula caused by chronic inflammatory disease

I A C ANDRESSIER M D

Shaw W The Pathology of Ovarian Tumors J Obst & C) at B it Et p 933 ? 2

Of 300 ovarian tumors 38 were chocolate c3sts. These were all c3sts containing chocolate c3sts. These were all c3sts containing chocolate colored material within an ap thelial lining. The author was careful to exclude cases of o areal hierarchical section of careful the exclude cases of o areal hierarchical to distinguish from chocolate c1 st. Ovarian hierarchical section of the colored careful careful

Whatever their cau e chocolate cysts are fre quently found with various forms of heterotopic endometrial prohiferations and their h tological structure suggests a elationship to the latter. The author reviews the various theories relative to these formations. He states that Rolitansky was the first to describe adenomy one of the uterus and on

Recklinghau en made a further contribution en tumors of this type in 1801. He cites Meyers serosal theory to account for some of the ease of endometrial growths and call attention to the fathere of Sampson's work to evolute all betern nlastas While it is extremely difficult to do no . Sampson's theory there are everal strong ohe tions to it Chief amon these is the fact that the theory does not explain adenomyomata of the umbilious and adenomy osis interna. The more recent theory of Halban which has been accepted in part by Sampson expla ps all cases of adenomyous and chocolate cysts by lymphatic spread from the endometrum of the uterus. The author does not accent this theory because in the examination of thousands of sections of adenomy omata and chomlate casts he has never seen endometrial tissue in lymphatic spaces

Shaw studied serial sections of all of the tumor in the cases. Grossit, the largest tumor was a in in the cases. Grossit, the largest tumor was a in the case of t

In experimental work on tabb t in which the endometrial transplants to the peritoneum reported by Jacobson were repeated the results were similar to those obtained by Jacob on

to the contract of particular through the contract of the correct or the contract through the contract three endometral three in the lining membrane. Early, forms do not be an epithelal lining but pseudo-luten cells are for all in their wall. As the cyst develops the epithelium becomes better marked, it may not appear the correct of the cyst develops the correct of the cyst develops the correct of the cyst develops.

#### EXTERNAL GENITALIA

Sumon H E Colpect my J 4m M 4 5 933 0

Colpectomy is a reparative or corrective operation in olving complete anatomical and ph stolomest loss of the "agina" Prolapse in the a ed is its most frequent indicat o

It may be subtotal the uterus b gleft m pl ce or total with removal of the uterus

Recurrences after the Watkins Werthern interposition operation for polapse and existocele mix sometimes be corrected deep b hysterect my and colpectomy. When agunal hysterect my is performed in

When against instruction of the periodic many be impossed before a construction of the periodic many be impossed before a construction and the attribute extense of the truction of tissues. If there is not a sufficient contra indication to goingle obliteral on colpections as an dijunct is preferable to a periodic periodic many construction which will filer little prospect of permanent cure.

The subtotal colpectoms of Le Fort in which the uterus is left in place provides for drainage of the secretions from the uterus and cervix by the forms ton of a transverse cavity beneath the cervix which communicates at each end with two lateral canals leading to the surf ce at the vagnal orifice. Such provi ion for permanent drainage is es ential in all cases in which the uterus is left in place.

When the uterus is removed provision for drain age is not necessary and the entire vagina may age is not necessary and the entire vagina may be obliterated. In the original technique, a vertical million encision, was made through the vaginal microsa from just beneath the urethral measus extending over the vaginal dome and down the posterior wall to the mid fourchette. The vaginal microsa vas completely removed laterally and the cavity obliterated by suturing together the anterior and posterior valls. A small rubber tube or busided of silk own satures provided drainage from the unper portion of the cavity to the surface.

The objection to this operation is that it did not include reconstruction of the perneum hich is sential for maximum support. The lateral fasciar and the remnants of uterine ligatures were not utilized to support the bladder the latter therefore being permitted to say against the rectum.

The author performs a modified total colpectomy under sacral nursathesia a settical incision is made through the vaginal mucosa from just beneath the urettrial meatits and extended well above the cysto cele. The vaginal mucosa is elevated well laterally and it to or three sutures are deeply placed to bring the literal it use across beneath the urethra and lower part of the bladder.

The posterior vaginal mucosa is elevated and the levator muscles and adjacent tissues are exposed and si ture it together as in the usual perineorrhaphy

The remaining vaginal mucosa is then removed down to the mucocutaneous junction. In the presence of marked cystocele the ureters will drop well down and and backward but will not be early in jured if their altered position is borne in mind. Opening of the cull de sac which may occur at this time is without danger. Bleeding i accurately controlled by ligatures and hot packs.

The cavits 1 obl ferated from above downward to a series of sutures of doubled heavy chromic cat gut The sutures are placed deeply in lateral structs and include on 1 a very supe ficial bite in the alterior and posterior walls as they are passed across them. In the placing of the upper sutures care is taken to a tool the urters. When the estutiers are taken to a tool the urters. When the sutures are success to a tool the urters. When the sutures are success to a tool the urters. When the sutures are success to a soul to be compared to the surface of the cavity which is the time place for eight or ten days.

Meet the vaginal cavit is obliterated down to the mucocutaneous junction the mucocutaneous edges are ace rely approximated. The drain is frought out paster its or in the milportion. A return on catheter may be left in the bladder for ten days. MISCELLANEOUS

kosakoe J Ohga T and Okamoto S Investiga tions Concerning the Excretion of the O arian Follicular Hormone in the Urine of the Human Female I Determination of the Hormone Content of the Urine of Normal Adult Wommon termination of the Hormone Content of the Urine of Women with Uterine Cancer Jap J Obt 8 to fc 1933 v 8 1 290

The authors made quantitative determinations of the ovarian follocular horizone everteid during the mensitual cycles of five normal women and nine women with uterine hypoplasia. The estimates were made first by Zondek's method (ether extraction seponification) but as the results obtained by this technique were less satisfactory than those obtained by a combined ether benzol extraction method the latter method was used exclusively in later inve to gations.

The results of the investigations show that the amount of hormone excreted during the menstrual cycle is subject to variation. The smallest amount is excreted during menstruation and the next days following The excretion rate then increa es gradually to reach a maximum directly before the next men strual period. There is also a distinct, though not as great nor as uniform a ri e at the time of ovulation The smallest amount of hormone detected was mouse units (during menstruation) The maximal amount 403 mouse units was detected just prior to menstruation Hormones administered by injection at various times during the menstrual cycle are excreted quite promptly at a rate which depend upon the phase of the cycle and the amount of hormone injected. There was no important difference in the rate of hormone excretion between normal omen and women with uterine hypoplasia. The authors fraw the follo ing conclusions

I Menstruction occur normally when the amount of hormone in the organism has been reduced by excretion to a certain minimal level

2 The corpus luteum apparently excretes large amounts of follicular hormone a fact v hich must not be overlooked in hormone therapy

3 Hypoplasia of the uterus of Crade 1 is due not to a deficient production of follicular hormone by the ovary but to defective response of th uterus to the hormones produced

4 The dosing for ovarian hormone in replacement therapy must be regulated according to the phase of the cycle. It in necessary to give from 100 to 400 mouse units daily with an average lose of 200 mouse units.

Ten women suffering from uterine carcinoma were studied for mit estandpoint of the extretion of oxarian follicular hormopic in the utine. In three cases the determinations were made according to the Londek method and in seven by the combined ether benzol technique. The 'Ulen Doiss' test for the oxarian foll cular hormone was po itive in the unine of all women with carcinoma e en those x ho

had passed the menopause Women with actinoma, show a very irregular rate of homone excretion the amount at times being exceptionally great and at other times almost minimal. The total amount excreted in general does not exceed that excreted by normal adult women. Following extirpation of the uterus the amount of follicular hormone excreted tends to increase Whether or not this is due to removal of the end-organ for the follicular hormone women its excretion below as administered to such women its excretion. The such as a consideration of the able even when one or both owners have been removed.

As a result of these studies further problems for research have suggested themselves for example whether the excretion of the follocular hormone is determined by the carcinoma itself or is dependent upon the age of the patient. It is important to determine also the nature and the source of the hormone responsible for the positive Allen Doug test. The authors believe that there is endence to support mone found in the unite of women with carcinoma mone found in the unite of women with carcinoma the Allen Council of the control of the carcinoma carcinom

#### Whitehouse B Some Aspects of the Menopause Ca ad a M Ass J 1933 xxxx 585

The general metabolic processes in the female appear to coincide with the cyclic rhythm of the sex function. This is shown by variation in the body temperature the calcium and iodine content of the blood the basal metabolism and the increase in the ammonia coefficient during the premensitual phase.

It has been shown that a cure representing the basal netabolism automatically di idea itself into four phases corresponding closely to the vanous stages of endometrial growth During the pre menstrual stage the metabolic rate gradually in creases reaching a maximum four or fixed as) before the conset of menstruation. Two or three days before the discharge appears it falls suddenly to a minimum value. It then gradually rises until it is above normal. This phase is associated with the short normal falls suddenly to a minimum value of the properties of the constitution of the constit

These phases are so well defined and so constant that it is possible to determine the phase in which the uterine endometrium will be found from a study

of the metabolic rate curve

If an artificial mensitual period is initiated by the destruction of a mature gradina follucior as de eloping corpus luteum there is a disturbance of the basal metabolic rate which is typical of that de scribed as normal for the natural function. Also at the time in the cycle when mensituation would nor mally have occurred if no surgical interference had taken place a second typical mensitual rose and fail occur although as a rule they are unaccompanied by uterine hemorrhage. A secondary curve is thus

superimposed upon the normal cycle of the in dividual

At the menopause ovulation is commonly figquent irregular and patch, this being reacted by marked variations in the metabolic rite. We double cophorectomy the subsequent metabolic curve continues for a time to show the unal lenstrail disturbance although the variations are less obvious because the metabolic rate throughout the cycle is continually high.

The observations of Roberts show that the metabolic changes are not due to anabolic and katabolic phases in the endometrium or indeed in ovarian function as they continue when all ovarian

being maintained at and after the menopause in the absence of a harmorrhagic uterine discharge which signifies the acme of exual activity. The author next con iders the possibility of

The author next con iders the possibility of correlating these observations and experimental facts with the clinical data commonly associated with the menopause natural as well as artificial.

Why does one woman escape whereas nobbesuffers to such a degree that even a mental brak down is possible? This question leads the author to conclude that more than one factor is involved 1.2 suggests that the decisive factor in the production of the clinical picture of the menopause is a brak down in correlation between the two great essential of the mensitual function which are designated him as A and B—the ovulatory factor and the essistual factor

As the menopause approaches the discharge of on a from the outary becomes irregular. Some cells fail to mature and others take longer to mature the usual fourteen das I no some cases an own nipens only at intervals of months and in a few matures are the state of the productive cell may not mixed and upture until two or three years after apparent essistion of the menses.

This delayed or late ovulation will explain some of the post menopausal hamorrhages which while in themselves quite harmless neces, itale a disposic curettage because of the possibility that the bleding may be due to carcinoma of the uternae body

A temporary increase in fertility commonly title place at or about the age of cessation of the reproductive function so that some women have termonly pregnancy at this time. This may be due to a process of speeding up in the maturation of the follides or what might be described as a temporar mass production of reproductive cells.

The author emphasizes that the normal crual di turbance takes place just the same after an artificial period produced by the excessor of a mature follucle or corpus luteum and that this do turbance continues for a time in the absence I first o ulation. These facts in his opinion provide the vio the chinical picture of the menopause.

In the majority of women there is a definite rhythm in the seventy of the flushings of the menopause if the menstrual rhythm had previou ly been regular If dates are recorded at a found that the flushings reach their maximum at regular monthly dates which correspond to the menstrual period and to the fall in the basal metabolic rate as ociated with this epoch

This I true also of other vasomotor symptoms such as headache and hæmorrhages from various Other record show similar regular meno pausal bleeding from the nose rectum and stomach and in one instance from the bladder. As the observations were extended it was found that the hamorrhage from the mucous surfaces gradually

and spontaneously ceased

The author emphasizes all o that when hæmor rha e occurs during the menopause either from the uterus or any other organ it always if severe enough relieves the subjective symptoms. Flushings head aches and vertigo are relie ed immediately. This is the reason why a woman who has occasional uterine bleeding from late ovulation during the menopause is rarely so troubled with vasomotor symptoms as a woman who cease absolutely to menstruate at a given age

It is believed that the vasomotor symptoms gen erally associated with the menopause are intimately related to a temporary excessi e concentration of the sex hormone in the ti sues In other words the persi tence of the œstrual factor after the cessation of o ulation accounts for the flushings headaches and vicatious hæmorrhages which often render I fe miserable at this epoch. The rhythm of the vaso motor disturbances their relief by occasional hæmor rhages and the occurrence of similar manifestations during the amenorrhoea of pregnancy and that following double oophorectomy all support this theory

Further e perimental evidence is available in the p e ence of the anterior p tuitary like hormone in the unne dunn, the acme of these symptoms Additional proof is offered by the results of the administration of ce trin at the menopause

There is a feel no that the virtue of many of these hormonic so called cures for the menonau e lies in the cestrual uterine hæmorrhages that they may produce and their clinical applicat on appears to be rather homosopathic

The work of Hannan suggests that the flushings are the result of increased tonus of the sympathetic nervous system brought about by unbalanced action

of the sup areral glands

Hannan found that the intravenous injection of to minims of a 1 1 000 solut on of adrenalin chlo ride always gives rise to an immediate attack of flushin in wo nen suffe ing from these disturbances Thyroid sensitizes the body cells to the action of adrenalin Therefo e it should not be given to women at the menopause f these conclusions are correct Hannan attributes the unbalanced action of the suprarenals to withdrawal of the restraining influence of an ovarian hormone but the author believes that a hypothesis of constant antagonism between the ovary and the adrenals is unnecessary

He is of the opinion that either the suprarenals or po sibly the sympathetic system itself is stimulated by accumulate I sex hormone unrelieved by natural menstrual hæmorrbage or that the suprarenal a the source of the sex hormone

He is inclined to think that many of the prepara tions on the market at pre ent if effective at all are double barrelled weapons. The cestrin they contain may succeed in producing uterine hamorrhage. If so the vasomotor symptoms may be temporarily relieved On the other hand cestrin may act like adrenalin as in certain of his cases by exaggerating the flushings and heats or producing vicarious hæmorrhages from other mucous surfaces

Therefore he has recently adopted the very con verse of drug treatment at the menopause reverting to the old practice of blood letting in cases in which intense flushing and especially headache have called for active treatment. The results have con firmed his opinion regarding the cause of the clinical symptoms

The author's practice consists in removing 20 c cm of blood daily for two or three days until the symptoms are relieved

Whitehouse has noted that women who experience flushes in spite of the fact that they are menstruat ing usually have several hæmorrhages. These extreme lo ses he believes are due to excess of circulat ing sex hormone the flushes being an index of that excess The urine contains a large amount of hor mone in such cases

On the other hand women who gravitate into a state of sexual old age without vasomotor symptoms are the fortunate few in whom a decrease in the production of sex hormone synchronizes with the termination of ovulation. It will be found that such women are normally very unresponsive to sympa thetic stimulation. They are placed in temperament and unaffected by various nervous impul es

If it is true that the syndrome of the menopause results from an unbalanced excess and action of the set hormone then it is obvious that rational therapy must be based not upon the administration of more of this substance but rather upon the exhibition of an antidote

An antidote to cestrin is insulin and insulin has been used in the treatment of uterine hæmorrhage of hormonic origin to t records that in fifty women treated by injections of insulin the results were so constant that if the bleeding a not controlled he does not hesitate to attribute it to uterine rather than ovarian causes Because of the antagoni in of œstrin and adrenalin it appears possible that insulin might prove a useful addition to the therapeutic armamentarium at the menopause. In cases of severe menopausal headaches and flushings in which the author has used it the results have been such as to justify its use in a larger series of cases

With regard to the artificial menopause reference is made to the investigations of W Ison on the imme diate after results of several hundred hysterectom es

The following conclusions were drawn

r Conservation of the ovaries after hysterectoms by no means all ays reheves the amptoms of the artificial menonause

2 Vasomotor symptoms are frequently less marked in cases in whi hithe ovaries are removed with the uterus than in cases in which ovarian tissue

3 In the cases of young women double opphore tomy and hysterectomy are frequently not followed by marked menopausal symptoms and the nearer the time of operation to the natural age of the menopause the more marked are the vaso motor and nervous manifestations.

ANTERNA E SILL MIN

#### CORRESPONDENCE

#### TOTAL VERSUS SUBTOTAL HASTI-RECTOMA

To the Edito In this years first number of SURCERY GYVECOLOGY AND OBSTETMES (p 1 of INTERNATIONAL AB TRACT OF SURCERY) Doctors Gardner and Finola publish a valuable review (with bibliography) of recent hierature on malignant tumours of the uterus. The question of cancer of the cervical stump is briefly dealt with and begins with the statement. Any comment on causer of personal published the statement of the control of the statement of the statem

As a gynecologist who has always since the end of last century performed the total operation and not once the subtotal I would like to comment on this part of the review

That cancer of the stump is avoidable by total hysterectomy requires no protest violent or other it is a self-evident fact. If the cervix has been completely removed the patient cannot get cancer in it.

The authors refer to my paper Total Abdony and Histerctomy for Myoma (B : M / 392) 1153) to which as a senous contribution to an important subject 1 would refer readers since the above review no doubt for want of space does not deal with the questions involved as fully as my paper. Then the authors say Spencer makes the astoushing assettion that cancer of the stump is soo times more likely to de clop in a cervical stump than an activity to which the corpus us still attached.

statement (loc cit) is based on the results of enough by two advocates of the subtotal operat on (Peham and Amreich) who found that it occurred at times more frequently in the stump of the amoutated uterus They had observed 8 cases amongst 1 253 occurred more than 100 times more frequently was based on the frequency with which cancer of the stump is met with which I gave evidence to show is at least 3 per cent Dr \ Graff of Iowa met with it in 70 per cent of cases of cervical cancer seen Dr G G Ward of the Woman's Hospital New York in 7 2 per cent of the cases seen Gosset and Wallon (Ginec or 1032 p 150) in 16 per cent The average of these 3 ob ervers gives a per centage for cancer of the stump of 6 c of all the cases of cancer of the cervix seen or mo e than twice the figure used in making my computation. Doctors Gardner and Finola are astonished at my statement I like Clive before his judge stand astonished at my moderation

Whatever be the increased frequence of cancer after amputation there is other evidence that that of Peham Americh of amputat on as a case e.g. of Labhardt's g. cases of cancer of the stump 2 occurred in virgos in whom cancer of the err is a extremely rare. Way I appeal to my American contribution of the error of the

HERBERT R. SPENCER M.D.

Lond n England.

#### OBSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

Romantello C The Relation of Astamins to Mammary Function and the Intra Uterloe and Extra Uterine Development of the Fetus (Le nt min in rapp to 11 funzo e m minari d all slupp intr el e tra uten del f to) 4 ch d tet ex e 93 1 535

The author reviews the literature on the relation of distance of the distance of the distance and offspring and then reports his observations on the effect of large doses of the combined vitamins on pregnancy lactation and the ne born His observations were made in the following experiment

I ight groups of two pregnant women each were selected The patients in each group were matched as closely as possible with regard to the stage of their pregnancy their health and other factors so that one of them could be used as a control The vitamin preparation of Lorenzini a globule con taining all of the vitamins in a certain desired proport on (not specified) was employed. To one patient in each group i globule was given twice a lay for from fifteen to t venty days prior to delivery To the other no additional vitamin was adminis tered. All of the women vere ambulators and on a general unrestricted diet. Comparisons were made of the health of the mothers the quality of the milk as ascertained by repeated analyses and the height weight and principal measurements of the

The so calle I by pervisaminized group of women were in bettie health clinically, than the controls began la tation earlier (second and third days after adulter) and had more abundant mill and more plentiful supply of the principal milk elements. The babies of these women had an average birth weight (210 gm.) abo e that of the controls and hoe ight of pre ious babies born of the same about the control of the controls and the control of t

The author behaves that the greater fetal de elopment has an important of n cal application in the borde line cases of distocia due to contracted pelis Groß E.C. F. OLA. M.D.

kretschmer II L. Heanev N S. and Ockuly E. A. Dilatation of the kidney I el i and Ureter During Pr. ganacy and the Puerperium. A Pref graphic Study in Normal Wom n. J. Am. II 4. 933 c. o. c.

Of fits nine omen with a normal history and normal findings in the gen to u mary tract dilata to r f the ureters and killines, pelves occurred during pregnancy or the puerperium in all. The dilatation was almost always above the pelvic brim and in creased progressively with the development of the pregnancy. Lateral di placement of the ureters also increased as the pregnancy advanced.

In spite of the dilatation and di placement pyelitis did not develop in any case No relationship between the presentation and position of the fetus and the ureteral changes could be determined.

Hason M Britt. M D

Kellogg F S Placenta Præv a New E gland J

On the basis of a study of 437 consecutive cases of placenta prævia at the Boston Lying In Hospital in the period from 1893 to 1933 Kellogg lays down the following rules

I Do not divulse the cervix to any degree

2 Do not temporize with a bleeding ca e at home 3 Do not examine a bleeding patient vaginally unless prepared to deliver immediately

4 Do not examine rectally

5 Do pack the cervix or vagina before the patient is hospitalized

Accouchement force has no place in the treatment of placents prayus of any type. Its mortality in the period from 1895 to 1015 was 10 per cent. Extremely conservative delivery from belo by Brax ton Hicks version and the use of the \text{\text{Nonthere by the Nonthere by Brax ton Hicks version and the use of the \text{\text{Nonthere by Brax ton Hicks version and the use of the \text{\text{Nonthere by Brax ton Hicks version and the use of the \text{\text{Nonthere by Brax ton Hicks version also had a high mortality—8 25 per cent in the cases of complete placenta pravia with a fetal mortality of 27 per cent. In 50 of 1834 cases of delivery by of 27 per cent. In 50 of 1834 cases of delivery by there has a mortality of 8 per cent and in 72 cases with delivery from below a mortality of 8 per cent. This shows that the combined method of treatment is best.

On the basis of the mortality the author concludes that as a rule conservance account is better than delivery by vagina when the baby is not in good condition and that delivery from below gives excellent results if the cervit is carefully protected from laceration by force. When there is dianger that the extraction of the baby may result in a lower segment rupture craniotomy is preferable

In a case of uterine rupture in an exanguinated patient it is after to sacrific the ovaries along with the uterus and stop the blood supply at the in uterus and stop the blood supply at the interest case. In the cases of mortbund patients a Brazton linchs version should be done the breech held in position until normal delivery occurs and a transitission given simultaneously. His sterection, can be done later if occurs continues. In cases of

The authors believe that morphine is the most valuable of all sectatives. It rarely has an unfavor able effect upon either the other or the child its much safet than many of more desired to most outside the section of the other of the section of the other of the section of the other of the other oth

Observations and the effect organizes under the many control of the control of th

In the second stage of labor and during delivery introus oxide and oxygen gave the best results. The duration strength and frequency of the contractions increased in over 50 per cent of the cases. There were no cases of postpartum hemorrhage due to the administration of anesthetic during

ROLLED S CROS M D

Waegell C The Use of Oxytocic Drugs During the Period of Dularation Cons derations of th Causes of the Onset of Labor (Les octoc ques dansla-pénod de dialaton Réfie na urles ca ses du déclen hem nt de l'acc uch me t) Ree med de la Su sez R m atx lun 8 7

In summarizing the indications and contra indications for the use of oxytocic drugs during labor the author discusses three commonly employed preparations namely quinine pituitrin and thymophysin

Quame while among the oldest of echoic agents is the least efficacious. It is effective only in small doses whatever the method of administration and serves merely to sensitive the uterior chief stimulants. Only when it is u ed in combination with other drugs (castor oil pituitini) can fairly consistent effects be obtained.

Extract of the posteror lobe of the pinntary alpad when administered indiscriminated in large doses during the first stage of labor is extremely dangerous and may result in uterne tetany uterne rupture or fetal saphyan. When it is admin to in reported man, the same that is a superior of the same to the sa

if the uterus has been sensitized previously administration of quinne or the membrane been ruptured. The course of labor can use expedited and instrumental intervention can be avoided. However strict attention to and close observation of the patient are

Teme any a thin mophy and (a combination tract of the hymic and of the posterior lobe pituitian gland) as equally effections in case extra and equally equally effective size in the author caution general the administration of doese greater than 0 and the period of doese greater than 0 and the period of the pe

O'viccia drug are indicated during labor is of primary or secondary inertia p emature of the membranes rigidity of the soft parts of inprimarars breech presentations eclarposa placenta prævia and f i the induction of laborar or after maturity. The are costra and in cases of marked pelvic contraction trap presentation abnormal position of the heat contraction in the presentation abnormal position of the heat contraction in the presentation and contraction of the parts of the presentation and contraction in the presentation of the presentation of the presentation disease and en utterne disterned from presentance polyling.

In speculating upon the cause of the on labor the author advances an hypothesis bases the pituitary-ovarian hormone relationships pregnancy The follicular and corous intent mones are antagonistic in their effect upo uterine musculature the former sumulating sensitizing it and the latter keeping it a through its inhibitory effect upon the folho mone During the greater p rt of p egnan amount of I tern hormone increases was amount of the follocular h rmo e diminishes pregnancy approaches term the balance is reand the uterus becomes m re irritable and sei to the effect of extract of the posterior labe nituitary pland. The change in the ovarian hobalance is due directly to the change in the qu of the hormones secreted by the anterior lobe pituitary gland During the greater part of nancy the quantity of luteinizing hormone ec by the anterior lobe of the pituitary gland is g than the amount of follicle stimulating hor. but at the end of pregnancy there is a rever this relationship leading to atrophy of the c luteum absence of p ogestin and a preponde of follicular hormone which increases the irnta of the uterus and makes it respond to the ox effect of the hormone of the posterior lobe. At ing to the author's hypothesis this mechanis plains also certain cases of spontaneous abwhich can be prevented by the administration of adequate amounts of corpus luteum hormone

HAROLD C MACK M D

Bertin E J Separation of the Symphysis Pubis with a Report of Five Cases Am J R tge of

Separation of the symphysis pubis probably oc curs more frequently than the older stati tics in dicate. The cases may be divided into two general classe. (i) the ein which the condition complicates childburth the larger group and () those in which

it is due to severe trauma

The articulation between the public bones i amphi arthroid joint formed by the junction of the two articular surfaces of these bones. The bones are held together by four strong ligaments one on each surface. It is debatable whether or ever it is generally accepted that during the pregnancy there is a definite relaxation or softening of all of the pelvic ligaments which may permit a separation even before delivery. The cause of the separation is no doubt the pressure effect of the advancing head on the pelvic ring the latter giving at its warkset point. Frequently forceps are a factor at least in the anterior portion of one or both sacrohac joint.

The clinical picture and diagnosi most often follow an unusually difficult labor especially one in which high forcep were used. Following delivery the patient complains of pain in the pubic region and lower back which radiates down the thighs and of difficulty in moving the legs even hen she is in bed. When she gets up the pain is more severe and walking a very difficult. A definite separation and movement of the pubic bones may be felt with each step. The objective signs are usually characters tic The gast is a peculiar waddle due to the instability of the pubic arch and the malal gament of the hip joints to the body is fre quently so typical that a diagnosis can be made from this alone There is definite tenderness over the symphys s and one or more fingers may be in serted between the pubic bone. There may be tenderness over one or both sac o iliac joints. Mo tion may be demonstrated at the pubes by manipu lation of the legs and thighs The diagnosis may be made or confirmed by roentgen examination

The treatment is immobilitation of the symphysis pubis by strapping a belt or plaster.

Five cases are reported with their X ray findings.

J THORN ELL II HER DON MD

Goethal T R Breech D liveries with Reference to \ R y Measurem nts of the F tus and Ma t rnal Pelvis 4m J Ob 1 & Gv 933 1

Ste eoroentgenomet v p ovides a method for antepartum measurement of the fetal cranium and the maternal conjugata vera In 628 per cent of eighty seven breech presentations presumably accurate measurements of the fetal head were obtained at the first attempt. In 372 per cent of the cases measurements were impossible because of the movement of the fetus in the uterus.

Control measurements of the infant's head taken after delivery and within seven days of stereoroent genometry indicated that the stereoroentgenometric measurements were accurate within 5 mm in room percent of the cases and accurate within 3 mm on

from 75 to 05 per cent

Steroorenigenometric measurements of the conjugata were are difficult to control with any degree of mathematical accuracy. However they were confirmed in the two cases in the author clinican which control measurements were possible at operation or autops.

In the case of a numerar with a breech presenta

tion stereoroentgenometry gave a confirmatory in dication for cæsarean section

Ation for cæsarean section

Edward L Cornell M D

Siemons J M Hæmorrhage Following Cæsarean Section 1 J Ob t & Gyr ec 933 : 656

Of the common causes of po tpartum hæmorthage —utenne atons lacerations and retained placental fragments—only atony 1 of importance after cæsarean section. Imperfect suturing of the uterine micision increases the danger of hæmorrhage and the danger is especially great when the incision passes through the placental site.

The author reports two cases of postpartum hem orrhage one of which was fatal. In the fatal case the uterus was not removed. The hemorrhage appeared half an hour after the cassarean section in the fatal case and five and a half hours after the opera toon in the case in which hysterectomy was done The pathological report in the latter case was as follows

The central parts of both walls of the uterus appeared normal while the lateral portions presented a blush mottled appearance suggestive of that found in certain cases of premature separation Before delivery the patient presented symptoms

of a toxemia of pregnancy A classical casarean section was done The author recommends hysterectomy if the

hæmorrhage is not quickly controlled

ED VARD L. CORNELL M.D.

## LU TARD L CORNELL IN D

### NEWBORN

Blackfan k D and Yaglou C P The Prematu e Infant A Study of the Effect of Atmospheric Conditions on G wth and on D velopment 4m J D z Ck ld 933 lv1 175

The authors carried out experiments in the care of prematurely born infants with automatically controlled humdity temperature and ventilation. These e periments covered the years from 1926 to 929 and were compared with the results obtained.

in unconditioned rooms in the period from 1923 to 1925 An attempt was made to keep the factors of medical care feeding and clothing as constant as possible in the two series. In the conditioned rooms the infants were kept in bassinets with proper cover ing but not in incubators. The infants under observation ranged in weight from 12 to 5 lb

The premature infants varied according to weight and age in their response to heat and cold the smaller ones being less thermostabile and hence reacting less favorably to change than the larger ones In the lower weight groups the temperature was normally slightly lower and attempts to maintain a body temperature of o8 6 degrees F were not always advisable. A humidity of 65 per cent with a tem perature range from 75 to 100 degrees F wa found to be most satisfactory for premature infants but infants weighing over 5 lb reacted rather poorly to these conditions The lower humidity (30 per cent) necessitated a somewhat higher room temperature Under the high burnidity the initial loss of weight was less the gain in length and weight was greater gastro-intestinal symptoms were considerably less frequent and of much shorter duration and the temperature level was more constant phenomena were less favorable under the conditioned low humidity and least favorable in the un conditioned rooms The general net mortality from infection (excluding infants admitted with infections) was 26 5 per cent in the unconditioned rooms o 7 per cent in the conditioned room with the low humidity and o in the conditioned room with the high humidity

As the series reported for the unconditioned rooms covered an earlier period when the medical treat ment of premature infants was less advanced some allowance should perhaps be made for the discrepancy but the figures for the low and high humidity

conditions were obtained during the same and are directly comparable. The authors cathe conclusion that a humidity of 65 per cen a room temperature of from 75 to 100 degr are best for the premature infant

## HE. TI S ACKE. J 1

## MISCELLANEOUS

Peralta Ramos A and Valentinu i Vi Prol tion Inactivity and Hormonal Activity I dat diform Viole (La nacti idad prol fers la actu dad horm nal e l m la hydatif Bol Soc de bst y g nec de Bue

The authors report two cases of hydatic mole and the findings of a histological study specimen in one of them. They draw the foll conclusions

r The Aschbeim Londek reaction was of nostic and prognostic value

2 The absence of toxic symptoms the con: of the size of the uterine tumor and the histol signs of regres on pointed to chorionic hypov. and probleration mactivity

3 Th positive hormonal reactions after development of the mole had ceased may I (a) continued slight activity ( tributed to chorionic epithelium (b) storage of the boi from a period of greater activity and (c) th terior lobe of the hypophysis Perhaps a small of proliferating epithelium may be sufficient to an intense reaction

4 These cases demonstrate that early at tense toxemia may be absent in hydatidiform and that the tumor although dead may ! tained for a long period of time during which Aschbeim Zondek reaction remains strongly M E. MORSE A tive

## GENITO-URINARY SURGERY

## ADRENAL KIDNEY AND URETER

Braasch W F The Practical Application of Excretory (Intra enous) Urography J Am M
A 933 c 848

Since the introduction of excretory urography the procedure has been most often referred to by the term intravenous urography, which was adopted urography. By Europeans it has been referred to 3 stages that from cystocopic or retrograde urography. By Europeans it has been referred 1.3 season of the season of

tion would be quite acceptable

Excretory urography should be employed as a routine procedure in the diagnosis of abdominal lesions. It will prove of most value in revealing stass in the renal pelvis or ureter and aiding in the in terpretation of shadows in the upper urinary tract

and in the estimation of renal function. It will prove of value also though to a less extent in the recognition of renal tumor tuberculosis and anomaly. It will always be an important aid to the urologist in conditions in which cystoscopy and ureterial cathertransition are impossible or inadivisable. It should be of much help in determining the presence of subsective of the uriter. It should be for more the properties of the contraction of the presence of shorter of the uriter. It should be the properties of th

Skarby H G Rupture of H3d onephrosis (Ueber R pt on Hvd on ph ) A t ch g Sc d 933 lx u 36

The author reports a case of traumatically r p tured hydronephrosis in a man fifty years of age. The patient died after having shown improvement for a week. Operation was not performed

Following a review of the various pathologico anatomical theones regarding the condition and seventy cases reported in the literature Skarby draws the following conclusions

1 Careful record ng of the history is of great importance

The condition has a spontaneous onset in about 25 per cent of ca es

3 In the most acute cases the picture of peritoring its is pesented strikingly often and as a rule nothing abnormal is found in the urine under these circum stances. In such cases e amination of the urinary tract frequently a disvaluable information.

4 After the onset of the illness there is not infre

quently a latent per od of usually less than a month

before mechanical di turbances are produced by the growing swelling (retroperitoneal effusion)

5 As in cases in which it appears in direct relation to the trauma this effusion is usually manifested by a rapidly growing swelling of large size

6 The enormous swelling is usually in marked contrast to the fairly satisfactory general condition

7 Hamaturia occurs in about half of the cases 8 In extremely exceptional cases spontaneous cure may result

9 Primary nephrectomy after due control of the function of the other kidney is unquestionably the best treatment

Bragagnolo G Hæmatogenous Renal Infections and Reno Ureteral Denervation (Infezioni ema togene re ali ed enervazi n reno ureterale) A ch tol d ch 933 vvv

The author reports experiments which he carried out on dogs to determine the effect of reno ureteral denervation on the localization of hæmatogenous infection in the kidney. Deneration of one kidney was done and at varjing intervals thereafter a sus pension of attenuated staphilococcus procyaneus aureus was injected intravenously. The infection frequently caused the formation of small focal abscesses in the denervated kidney whereas the intact kidney remained units of the contraction of the contraction

The localization of the infection was attributed to The localization of the infection was attributed to The localization of the infection was attributed to the loss of mouths and contractivity of the pelves and ureter following the denervation. The author believes also that denervation causes a change in the vascular tone of the kindey and probably trophic disturbances in the bidney cells.

Redi A N w Po sibility in Renal Surgery The Connections of the Kidney to the Omentum the Spleen and the Spl no Epiploic Vessels An Experimental Study (Po bil ta nuo nella chrurg renal L conn s n d l r con l p ploon c n l mita e c n 1 h 1 spl o ppl c 1) Spe t le 933 lext u 273

The problem of experimentally producing changes in the blood supply of the kidney is a very old one. The methods of doing at may be divided into two groups. In the first group are the natural methods of using collateral circulation with or without based on the contract of the contract

The author gives a brief discussion of these meth ods and then reports experiments he carried out chiefly on dogs to study the behavior of the kidney covered with omentum and deprived of the vein or artery or both as evidenced by physiological roentgenological and histological findings. At the same time he investigated intrarenal omentaliza tion and splenorenal connection He showed that in improving the collateral circulation of the kidn y wrapping of the kidney with omentum was no more effective than decapsulation or the natural collateral paths. He believes this is true also of intrarenal omentalization by the Parlavecchio tech nique. He has worked out a method of epiploico plenorenal neo-angiostomosis a procedure con sisting in the preparation of small bunches of vessels isolated from the splenic or omental group and their insertion into a gutter running from pole to pole of the Lidney between the cortex and medulla By this procedure a debnite and sufficient neo-approstomosis is obtained Redi repeated Lettiers appenments on the splenotenal connection He concludes

of the spleen into the kidney ÉLGENE T LEDDY M D

obtain complete deviation of the venous circulation Campbell M F Vascular Obstruction of the Ureter in Juveniles Am J Sug 933 xx1 527

that this connection is an excellent method of

emptying the kidney but in itself cannot maintain

a tenal function compatible with life. He states

that he will report later some further studies of the

sple..orenal connection in which he will attempt to

Campbell reviews the literature and reports seven cases of vascular obstruction of the ureter in juve He states that as a rule the condition is diagnosed as chronic pyelitis and allowed to progress unless a complete prological examination is made He urges conservative su gers chiefly vessel re section or ureteroplasty whenever this is possible but states that in far advanced renal destruction infection or calculus disease nephrectomy is indicated He emphasizes the absolute necessity of a modern urological examination in cases of per sistent urinary infection

HARRY W PLACGEMEYER M D

Wheeler Sir W I Dell Stone in the Oreter Par 1! ne 1933 CXXXI 533

In a general discussion of stone in the ureter Wheeler eports his opinion with regard to the cau e diagnosis and treatment of the condition. In support of his contention that the diagnosis is frequently missed he cites records showing that one patient out of every five with a ureteral stone was operated upon for appendiciti In the decision as to the advisa bility of ope ation for the removal of a ureteral stone apparent destruction of renal function must not be confused with true destruction. Lemoval of an obstruction s often followed by almost complete return of renal acti its. Wheeler favors operati e removal as ope ation is a certain and rapid procedure wherea evstoscopic methods are often u and slow He states that in 80 per cent of 1 stones which have recently mo ed into th portion of the ureter can be dislodged by m tive procedures FRANK M. COCHEMS

BLADDER, URETHRA, AND PENT Hyams J A Kenyon H R and Krame

Urethrocystography in th Male J 45 1933 61 30

In discussing urethroey stography as an a: diagnosis of pathological changes in th urmary tract the authors describe a simpl consisting of a 2-oz syringe which is suppl by pass and trap so that a manometer can when injections are made into the uret bladder In the cases reviewed the press ploved ranged between 150 and 160 mm 1 cessive pressure may result in mucosal oo; urethrovenous backflow Urethrovenous 1 occurred in several cases but only in those: manometric control of the injection was ba rolg

The authors have used a 3 per cent sod u: solution and a solution of skiedan bicarb soda and sodium iodide. They emphasize portance of using only solutions which a irritating miscible with unne non toxic an less if introduced into the circulation. The the first \ ray exposure with the patient fi obliquely on the table the lower leg flexed penis resting on the thigh and the second i with the patient in the dorsal position T posures permit the detection of pathological in the bladder prostate posterio ureth anterior urethra. On rare occasions, the ejaducts and seminal yes cles may be visualized

Contra indications to this procedure are it active inflammation and recent tra ma

I SERVEY RETTER,

#### GENITAL ORGANS

Lonsles Q S The Prostatic Problem A Based on De elopments of the Pa Years J im M i 933 (1, 1769

Lowsley believes that many patients of upon for a prostatic condition might have I hered by arrigations prostatic massage 1 douches. He states that resection of the actous prostate seals the prostatic ducts and in with drainage

He believes that transurethral resection st limited to operations on the floor or lower of of the vesical sphincter. He advocates dai operative irrigations and the passage of sou a week

In eighty nine cases of vesical neck resects was a mortal to of our per cent Of the deaths three were due to urmary extravasat the peri esicular and intra abdominal regsix to cerebral hæmorrhage pneumonia carcinoma or uræmia in men of advanced age

The lo est mortality 48 per cent occurred in cases treated by perineal prostatectomy

I SID EY RITTER M D

Sargent J C Some Dangers and Diff culties of Transurethral Resection J t ol 933 xxx

The author believes that in similar case train untrhal rescribent of the prostate is somewhat more sale and simple than prostatectom. He prefers to preform it under spinal anasthesia as in the use of anasthesia of this type the possibility of explosion when electrical apparatus is employed is avoided lione or as there is usually a drop in the blood pressure incident to the induction of spinal anasy them the usual that the properties of the spinal anasy them the usual that the properties of the spinal anasy them the present the spinal anasy them the usual that the spinal anasy them the present the spinal anasy them the present the spinal anasy them the present the spinal anasy the spinal anasy that the spinal anasy the spinal an

One of the chief dangers of transurethral surgery is sepsis. Therefore pre operative and postoperative care i of great importance. In seventeen of the earl or transurethral resections performed by the author there were eight deaths all of which were due either directly or indirectly to pyelonephritis. Drain are must be free uninterrupted and continued for

a sufficient length of time

Resection appeal to the average patient because it does not require an open operation and it necessitates less hospitalization and hospital expense. Rates less hospitalization and hospital expense. Reston vithout cystostomy for drainage as a radical departure from the technique of prostatectomy be cause the catheter used for protoperative drainage must be mucl smaller than the suprapuble drainage must be mucl smaller than the suprapuble drainage must be mucl smaller than the sole means of timinage to the termonal of clots or pieces of resected tissue more difficult. If the catheter should is plone to the sole mans of the land of an appear of the bladder will stop at once. When re hainer is placed on catheter drainage unnary of them to the continuous size of the think of the continuous size of the sole much catheter than in either supraphic or perineal pro latercipmy.

Epiduly mitis associated with resection is a com paratrick minor emplication but must be recognuzed as one of the potential dangers. In a certain number of patients being prepared for resection by catheter I amage an unusual amount of indection of the genital tract occurs. In the cases of such patients section of the salvoid be done before the

operation of

In conclus on the auth r re aff rms h s confidence in the fature of exectin as he finds the procedure be ming i creasing I is and satisfactor. In the first the cases in which he performed the oper tion the ewere nine de ths whe eas in the lattent I is there were only a deaths "argent ascribes the d ease in the mortality to the following T emay I fact is (1) increased familiar to with the operative procedure (2) more careful control of the blood pressure d ring the operation (3) more

respect for the long-established principles of adequate drainage (4) more intelligent pre-operative and post operative care and (5) the fact that cystostomy was performed in seven of the last twenty five cases but in only one of the first twenty five

CLAUDE D HOLMES M D

Burdick C. C and Coley B L Undescended Testicle An Sug 1933 cviii 495

Di couraged by the end results of other operations for undescended testicle the authors in 1906 fried Torels, a technique in selected cases. The results were so satisfactory that during the last five years they have adopted this method at a routine procedure. They agree with Torek that the stretching and development of the scrotum are the factors preventing retraction of the testicle.

The operation is best performed between the ages of eight and twelve years. At this age the testicle has been given time to descend spontaneously if it vill it is larger and easier to manipulate and the structures are identified more easily than at an earher age and the testicle may be placed in the normal position before publicy. If a large herma is

present earlier operation is indicated

The incision employed for inguinal hernia is used In making this inci ion it is important to bear in mind the possibility that a superficial inguinal sac may be present just beneath the superficial fascia The aponeurosis of the external oblique is reflected the cremaster is sol t in the direction of its fibers and the sac vessels and testicle are delivered. The sac is opened near the internal ring but at a sufficient distance from it to prevent a possible tear in the sac from extending into the ring Gentle traction on the testicle brings out the natural cleavage planes be tween the sac and the vas and vessels. With clamps on either side of the opening in the sac the vessels and vas are separated with blunt pointed scissors The sac is cut across and the upper end separated from the vessels. This procedure is simplified by introducing a blunt retractor into the internal ring and lifting it upward. The sac is then transfixed and ligate I and the redundancy excised. This procedure cures the herma The lower end of the hermal sac is excised close to the testicle and all fascial bands be tween the internal ring and the testicle are removed so that the vessels and vas are denuded of their cov erings. This step is very important. In the authors cases di usion of the spermatic artery and vein to lengthen the cord has not been necessary. If it a done atrophy usually follows

An obl que incision i / in long is next made down to the fascia fata on the inner surface of the thigh at a site where the testicle bes without undue tension. The bottom of the scrotum is distended with gauze and then incised the incision corresponding in length and direction with that of the thigh. The postenor lips of the z incisions are sutured together. Torch advice interrupted sutures of catgot but the authors use a continuous suture of a subcuticular type. The testicle is then brought down through the

scrotal wound and sutured to the fascia of the thigh The anterior margins of the thigh and scrotal wounds are sutured together with a continuous suture of silk. The herma is then repaired

On completion of the operation the knees are strapped together to prevent ten ion. The sutures are removed on the ninth or tenth day. At the end

of two weeks the patient is discharged

By the end of two or three months the scrotum has stretched to or nearly to normal sue. In the second stage of the operation which is done at that time or if necessary is delayed until later the testide is gently released from its bed in the thigh through an opening in the scrotal edge and covered without transon.

In cases of bilateral undescended testicle the testicles are brought down one at a time. At the second operation the first testicle is released and the second is brought down to be released later.

Of a series of 137 cases in which the operation has been completed excellent results have been obtained in 133. The failures were due to technical errors such as failure to divide the fascal bands tension on the uture in or infection. It is testicles tension has testicles because at the studies of the series of the testicles because at opinion at the probably because of interference with the blood supply caused by tension on the vessels.

In conclusion the authors state that t results of this procedure are far superior to other methods

CLAUDE D PICKELL,

#### MISCELLANEOUS

Volante F Soft Bacterial Calcult of the Tract (Sui calcoli batterici molli d'lle viet Ar h ital d'u el 1933 x 505

Only about thirty cases of soft bacterial c the urinary tract have been recorded. Foll review of the literature the author repo cases and describes experiments which he out on animals to determine the cause of such

out on animais to determine the cause of suct Soft bacterial calculu consist of a nuder posed of a mixture of proteins bacteria a which is surrounded by a strainfed precipitation containing in its spaces numerous to bacteria. These calcula are to be differently a consistent of the surrounded by a strainfed precipitation of the original surrounded the surrounded the surrounded the surrounded the surrounded the surrounded that the surrounded the surrounded that th

## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

## CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Comolil A Surgery of the Parathyroids With Special Reference to Parathyroid Osteoses (Chi ga d II pa ato di n spicale nguard allao teo pat o de ) Poi d Rome 1933 vi ez pat 599

The author reviews the more important experi mental pathological and clinical studies of para thyroid disease beginning with those of Erdheim in 1906 He states that while the results of para thyroid deprivation and the relationship of the parathyroids to calcium metabolism are fairly vell understood the large field of dysfunction of the parathyroid glands and the relationship of such dysfunction to changes in the metabolism of cal cium and phosphorus the skeletal system and the neurovascular system is as yet relatively unexplored It is known that hyperfunction of the parathyroid glands is associated with general zed changes caus ing symptoms predominantly referred to the skeleton but the generalized chronic osteo arthropathies are understood today little better than many years ago

Lievre has abandoned the old classification of osteoses due to parathyroid dysfunction which had a morphological basi and has substituted for it a classification with a physiological basis. He divides the conditions into three main groups (1) conditions of the type of Paget's disease (2) dystrophies of calcification and (3) the various types of para thyroid osteitis In all of these conditions the physiopathological chan es are similar consisting in mobilization of the bone calcium with decalcifica tion of the skeleton increased elimination of calcium from the organism and metastatic calcification in the soft tissues. As a rule the basis of these changes is hyperfunction of the parathyroid glands. Sometimes th's is associated with true adenoma formation

The syndrome occurs most frequently between the ages of twenty and seventy vears. It develops without obvious predisposing factors and with the misdious onset of pain of varying intensity in different parts of the skeleton. Later symptoms are asthema pallor loss of weight and skeletal de formittes especially in the spine lower extremities and pelvas. Pathological fracture circumscribed os and pelvas. Pathological fracture circumscribed os and pelvas. Pathological fracture circumscribed points from the increase loss of the many symptoms from the increase loss of the period of the peri

The changes shown by roentgen examination are multiform inconstant and at times almost insig nificant. Most characteristic is some degree of diffuse decalcification of the skeleton. The normal

ossous structure is lost and replaced by an irregular distribution of the trabeculæ Cyst formation not uncommon In the terminal stages the decalcification and atrophy may be so advanced that the skeletion; no longer visible in the roentgenogram

Chemical examination of the blood usually reveals an increase in the calcium content at some stage of the disease. This is associated with a marked increase in the calcium in the urine. The blood phosphorus is normal or is slightly decreased by an increase in the phosphorus in the urine.

The course of the condition is slow but progres sive with continued aggravation of the symptoms unless surgical treatment is given. Death ensues in

from one to ten years

Pathological examination frequently but not constantly reveals hyperplasa of one or more para thyroids. Often this is marked. The structure of the enlarged so called adenoma differs little from that of the normal gland. The changes in the osseous sistem are related to lacunar absorption with myeloplasia medullary fibrosis disorganized new bone formation and at times osteoprosis with or without the presence of osteoid tissue. Deformaties are noted especially in the femora. In addition to these bone lesions metastatic calcification and secondary changes in other viscera may be found.

The treatment indicated for these various syn dromes is surgical removal of the parathyroid tumor or in the absence of a tumor of one or more of the parathyroid bodies even though they may appear normal A most thorough examination and explora tion of the neck is necessary because of the possible presence of accessory parathyroid bodies and the fact that a parathyroid gland may be entirely em hedded in the thyroid Sometimes exploration with out the removal of tissue is beneficial possibly be cause of the disturbance it produces in the blood supply Proper treatment is followed by an im mediate decrease in the calcium content of the blood and unne arrest of the skeletal lesions and gradual recalcification of the bones. The same treatment has been used with varying success in arthritis de formans scleroderma and vascular lesions of the extremities such as Buerger's disease roentgen therapy is not beneficial. The administra tion of Vitamin D and irradiation with ultraviolet light have proved ineffective A Louis Rosi M D

Ottol nghi C E The Diagnos s of Osteo Articular Tub reulosis by Biopsy of the Regional Lymph Nodes (Di gnostic d la tub c loss of to articul r p r la bi psia g ngl ona) Rev de nl p y l awmell 933 in

The author describes his method of diagnosing tuberculosis of the hones and joints of the limbs by biopsy of the hymph nodes drawing the lesion. He believes that the procedure is original since he has found no mention of it in his review of the literature. His work is based on Lance's chinical research on the topography of the adenopathies associated with tuberculosis of various bones.

Ottolenghi reports in detail with reenigenegrams and micropholographs thirty two cases in which in addition to the usual clinical and reenigen examinations comparative studies were made of the results of lymph node biops, direct biops, of the lessons and morulation of joint fluid when present into guines pigs. The lymph nodes were examined microscopically culturally and by morulation

The series includes seventeen undoubtedly posttive cases (tubercrousos of the here femur Imp footelbow and wrist) eight doubtful and seven control cases (joint syphilis rheumatod arthritis). Of the undoubted cases lymph node borgs was positive in fifteen (885 per cent)! In nine cases (52 per cert) the disposis was made by this method alone. In the eight doubtful cases I jump node borgs, was negative all-bough irro proved to be unberculous and negative all-bough irro proved to be unberculous and of the total nineten tuberculous cases: the method was positive in 78 4 per cent. In the control cases it was necessities

The author concludes that lymph node biopsy is of great value. The adenopathy appears within the first few months is easily detected in external lesions and has specific characteristics. In some in tances the no les may appear normal or show only a non specific inflammation and yet prove positive on inoculation Lymph node biopsy is Preferable to direct biopsy because of its harmlessness the extreme simplicity of the technique and the higher percent age of positive results. It can be practiced under all conditions at all tages of the disease and on all patients. It alloys a positive diagnos s in cases ithout effusion and in a considerable number of cases it is the only positive finding. It ments M E MORSE M D further trial

Oltramare J H Malacia of the Scaphold Bone of the Carpu Pathogenesis and Tr atment (La mal ci d caphod carp n I the g n et tra 1 me t) S h med W h sch 933 u 950

The disease under discussion was described by I reiser in 1910 as ostertis cystica and by Kien Similar changes were boeck a lunatum malacie de cribed by others later The author briefly describes the di ease picture and emphasizes that trauma is responsible for the origin of the condition Sometimes the trauma may be ery slight. In a case reported by Houzel the changes first appeared thirteen years after the accident Mueller attempts to explain these changes by the special reaction of the bone to various conditions of pressure Accord ing to Jansen there is an accommodation of the bony structure to its function E ery increase in pressure causes a displacement of the bone salts Excessive pressure lead to softening (resorption of the bone)

Even kienhoeck recognized the khoedler shease Frieser suggests it rarefving ositiis due to rupture of the ments of the hand. Leriche and Font the disease a peculiar sort of Sudeck 2; softeoporos S. The author thinks the posttraumatic origin of these chang since harmorthages are found in the safter trauma. At any rate the chang after unrecognized fractures of the sear

The author believes that as a result period of immobilization in pseudart which later undergoes transition into imalicia. Such a pseudarthrosis was o Moreau h means of a bone transplan cases removal of the scaphold bone bad

Brailsford J Spondylol sthesis B

Spend lolisthesis is deformity of the parabat slipping if purbar spine on the sacrum. Although unknown at it is a definite pathological entity, and must be differentiated from earth, and must be differentiated from each of the parabat spine of the parabat spine of the period of the fifth limber is a hack ward dyslacement of part of the disk into the spinal canal and progressing of the pedicel of the fifth limber is lover surface of the fifth limber when the same plane as the upper surface out if it has moved so far forward the ore on the anterior surface of the stirt.

In the causation of the condition fair of the anterior and posterior segments arch is probably a factor. Another fa trauma in the growing child I is a beshown that in adults trauma suffice partial dislocation of the lumboscral yet utre of the neural arch does not cause thesis. Pregnancy occupational stractle lumboscrard angle are not factor.

The lateral roentgenogram is difficult because the shadows of the pelvic bon lumboascral jon it. In the anteropostem is a characteristic bowhne caused by it face of the fifth lumbar vertebra projecting starral body. This line has been of cases studied and is diagnostic. Later must be consideration of the surface of the constitution of the surface of the condition frequently, found in laborers condition frequently, found in laborers.

P rrot A Sormal Ossificati n and Manifestations in the Anterior T the Tibla (De loss fication or male festations of thologrous de 1 t bé on du th ) Red 2018 p. 33, 21 49

There is a difference of opinion not of gard to di eases of the anterior tuber thus but also with regard to the normal os ification of this tulnerously From nentient stude: the author concludes that as a rule ossification takes place chefls from the epiphysis although in some cases it takes place entirely from centers of ossification in the tuber of its till and in other cases entirely from the epiphysical centers. Os ification mar occur at any time between the ninth and formerenth years of age. The thi costly unites first in the epiphysis and then with the disphysis. Persistence of a clear space be e in the tuberously and the disphysis is not pathological even when it i noted at an advanced

Pathological conditions of the tuberosity are generally grouped under the name Schlatter's di ease or anterior tibial apophysiti author gi es the history of a case operated on in Onb darne s clinic and supplements his report with roentgenograms and photomicrographs cludes that there is no true inflammation and that th refore the name apoplysitis is incorrect. He He belie es proposes the name apophysiolysi that the condition is an acquired dystrophy in a tuberos is that is partially ossified and has under gone disintegration. In the case he reports there was a fibrosis or ginating in the cortex and invading the entire tuberosity leaving only a nucleus of bone. In this respect the disease is conparable with coxa plans which is a dystrophy of the upper ep phy is of the femur. Under the influence of weight and possibly other factors the dystrophic metaphysis of the femur becomes deformed with the development of coxa plana while the dystrophic anterior tuberosity of the tibia yields to the traction of the patellar ligament and the pathological fracture which the author calls apophysiolysis occurs

### SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

AUDRES ( S MOR AN M D

Blanco H Diaphy ectomy in Osteomyelitls (Di fisect mia por teom el tis) Rr d siru d B cd 933 v 497

In the cases of o teomy elitis reviewed the Orr method of treatment often y elded excellent results and shortened the period of hospital ation. However, in extensive cases (1) operation is insufficient an anterotic zone which cannot be eliminated spon taneously will remain.

It is generally agreed that the treatment of acute setomyeltis should be immediate operat on The procedure adicated may be simple incision and d amage of a periostical abscess e tens e t ep instance to not the mediulary cavity t ephination and r section combined or resection of all or the freater part of the displays:

The indications and benefits of complete driphysectomy are still subjects of discussion. In the author's e-perience the dangers and disasters at tributed to this method by some authorities have not been noted. Honever the method should not be used in all cases Of 152 cases of ostcomyelitis treated in the author's clinic only 10 were treated by total diaphysectomy. The results were so en couraging that Blanco believes the method should probably have been employed more frequently

Blinco reserves total diaphysectomy for cases in which the entire diaphysis has been converted into a sequestrum and enclosed in a shell of bone formed as the result of separation of the penosteum Such a massive sequestrum cannot be extruded sport atneously Because of the inadequacy of conservative operations and very late radical upperations radical diaphysectomy should be performed earlier in such cases. Osteomietities should be regarded as a septicemia with the onignal focus in home. As in the treatment of all septicemias the cause should be eradicated early and completely

The proper selection of cases for early resection is difficult. The patient's general condition will not serve as a criterion. Of much greater importance is the extent of the local process. In cases of sufficient duration the periosteum is usually eparated over a wide extent but this separation does not always run parallel with the intra osseous infection. Total resection i indicated especially in cases in which subperiosted ab cesses are present the bone is pale there i hittle or no bleeding and the separation of the periosteum extends throughout the entire cir cumference of the bone.

The article contains serial roentgenograms show ing complete regeneration of bone after total resection of diaphyses in the extremities

WILLIAM R ME ER M D

Lenormant C and Ménégaux C Functional Results of O thopedic Resection of the Elbow in Traumatic Ankyloses (S Is ésultate for t n Is de la é c ton th pedique du coude dans Is a kyl se t matiq ) P see méd P 933 No 9 1809

In the authors op nion the best operation for traumatic ankyloses of the elbow is that devised by Olher almost infty years apo "k-on the muscle interposition recommended by Quenu and others does not seem to have improved the results so far as re ankyloses and flail joints are concerned. The authors think this is a useless combination.

At the International Congress in 10.23 MacAus and defended atthroplasty as opposed to resection but arthroplasty of the elbow is only an economical resection with modelling of the joint surfaces and the interpretion of a free flap of apposeurous. In appare of the enthusiasm of Anglo Savon surgeons with regard to this operation it does not seem to be established to the control of the superior of the properties of the proper

The authors report three cases treated by the Ollier operation. In one of them a complete resec-

tion was done with modelling of the bone ends to each other In the two others hemi resection was performed the upper radio-ulnar joint being spared The authors believe that possibly this was a mistake as free resection (at least 4 or 5 cm according to Ollier) seems to mye better results. The best results were obtained in the case of complete resection In all of the cases the most careful postoperative treatment was given Mobilization was begin from eight to ten days after the operation and for the first few weeks was given by the surgeons them selves The functional result was poorest in the case of a nationt who was unwilling to carry out the post operative treatment as long and thoroughly as neces

The procedure described can be used not only in traumatic ankylosis but also in gonorrheral anky losis tuberculous arthritis (a case of which is re ported) and cases of ankylosis at a right angle if hile the objection may be made that in the latter the solidity of the joint may be damaged a flail toint may be avoided if a good technique is used and many nationts would prefer to sacrifice a little solid ity in order to recover mobility

AUDREY GOSS MORGAN M D

Wire Traction in Operative Elongation of the Femur (La tranon col file nell all non perate dlfmoe) Ch mo ime ! Inta XVIII 10.

Putti reports nine cases of operative elongation of the femur by wire traction. The patients ranged in are from fourteen to twenty two years. The indica tions for the operation were unilateral dislocation of the hip operated upon by the method of Lorenz five cases congenital dislocation of the hip which healed with a marked coxa vara external rotation shortening and mild flexion one case coxitis which healed with flexion and adduction two cases and flexed knee following poliomyelitis in which a supracondular osteotomy was indicated one case In the last four cases osteotomy was indicated for some other reason besides the lengthening shortening in these cases ranged from 31 to 10 Most of the case reports are supplemented

with roentgenoprams The technique is described in detail. It includes the application of fine wires for traction and coun tertraction followed by osteotomy and the applica tion of weights Two millimeter wires are used One wire is placed in the supracondylar portion of the shaft and the other in the trochanteric portion The application of the upper wire may present difficulties because of the varied position in pathological cases Therefore the author inserts this wire under direct vision The osteotomy is oblique Its length depends upon the lengthening desired Trac tion is applied with the hip and knee joints in semi flexion at an angle determined by checking with the roentgenogram so that the axis of traction is fairly exact The amount of weight is determined on the basis of the age degree of development and weight

of the nations and the findings of ment control evers three days The greatest recist lengthening occurs from the third to the days After the desired length is obtained the is maintained for two or three days A snica cast including the wires is then ann immobilization This is worn for two mont the end of that time another cast permittinmovement of the knee and leg is worn f months more

The complications and errors which Pri encountered to date are listed. In only one of there evidence of parests of the external p nerve during the lengthening and this was a easily by increasing the flerion of the hin ar and temporarily decreasing the amount of te In two cases the upper wire was not securely it and re insertion was necessary obviated by inserting the poper size under vision. Since the use of the 2 mm wire th ha e not broken Countertraction is essen proved by failure in the two cases in which not used. Of special interest is the fact that were no vascular disturbances in the extrem

A Lorre Poer

FRACTURES AND DISLOCATIONS Berdenfeldt E. Traumatic Separations Eriphyses of the Long Bones of th Extre A Clinicorpentgenological Study (Bestra Kenntnis de traum tischen Ep phys "loes den l neen Roehrenknochend r Extremitaeti klim ch roent en l gisch St die) Sea d out lexus S pp xviii.

This is a report on 310 trasmatic ep phise arations in the long bones of the extremities nationts treated at the Surgical Clinic of the Hospital, Stockholm in the period from I 1028 In all of the cases the diagnosis was v roentgenologically and the patient follows Seventy two of the separations which occur 67 patients were recent. To determine the p si especially the factors favoring subsequent of growth to cases of injuries of the confugalage other than true separation (mostly perior

of the consural cartilage due to nails) were inc Traumatic ep physeal separation occurs more frequently in boys (232 of the cases re than in girls (63 of the cases reviewed) It is common in the second decade of life (246) especially the period from ten to seventeen Jt age (224 cases) and much less common in th decade (40 ca es)

The lower radial epiphysis was separated of the cases reviewed the lower humeral in lower tibial in 44 the lover ulnar in 24 the fibular in 16 the upper radial in 8 the upper bi in 5 the upper ulnar and the trochanter mi 2 each and the lower femoral and upper til r case each

With regard to the etiology the following clusions are drawn

I In no case could the separation be considered with certainty or even probability as having oc

2 In a few cases (I case of decidedly slight trauma and 2 cases of familial occurrence at the same age associated with certain constitutional peculiar tites) it was impossible to exclude a pathological process in bone or cartilage entirely as the true or continutory cause of the separation

3 Among the recent cases was a case in which it was impossible entirely to exclude a pathological separation (the lower tibial epiphysis of a four year old girl with a heavy body build who sustained only

a very slight trauma)

curred spontaneously

4 The so-called traumatic epiphyseal separations of the long bones of the extremities are probably produced entirely accidentally but it is impossible to rule out the occurrence of sporadic cases in which the mode of production is analogous to a pathological process in bone or cartilage in conformity with that accerted for epiphy solyhas capitis femoris

S Pathologically the following groups of epophyses els separations can be recognized Group; I have without any other demonstrable injury whether in the form of a lamella (too small to justify the name of fracture) or a true fracture Group; whose presenting signs of lamellation but not a true fracture Group; shose combined with fracture of the display of the combined with fracture of the properties of the combined with fracture of the combined signs of the combined fracture of the combined fracture.

I ure epiph) seal separations occurred in 38 4 per cent of the cases reviewed. Of these 23 (7 4 per cent of the entire number) were found roentgeno logically to be pure epiphyseal separations no dam

age to adjacent parts of the diaphysis or epiphysis being detected and the separation following the epiphyseal line

repulsed interest and a sparations (Groups 1 and 2) were most frequent during the first half of the sec ond decade of hie. This is contrary to the view widely held that pure epiphyseal separations occur

almost exclusively in early childhood

Epiphyseal separations of Group 3 occurred in

155 of the cases reviewed those of Group 4 in 10

cases those of Group 5 in 13 cases and those of Group 6 in 4 cases

The lamellar sign vas found in 165 cases. In such cases the separation probably followes the entire line of ossification. In a cases it seemed to have occurred entirely through the cartaling. In the others there was no definite indication of a clore attention cal location of the fracture beaw within the conjugal cartilage (except the unate-apphyseal fracture). In most of the cases of Gouppa a and a; its probable that there was a fracture of the conjugal cartilage intelligence.

The prognos s for un on consolidation and function is no less favorable than in analogous para articular fractu es occurring in the period of growth Ho ever in 3 of the cases ever ed there was short

ening of the injured bone. Consequent inhibition of growth with persistent shortening of the injured bone occurred in 14 cases examined after true epiphysal separation. In no case was there any abnormal increase in the growth of the injured bone. In some cases shortening may be compensated for by increased activity not only on the part of the damaged conjugal cartilage but also on the part of that at the opposite end of the bone but there is no compensation through increased growth of the part of the extremnty above or below the injured

The following factors may be considered as causes of inhibition of growth with persistent shortening

A direct lesion of the proliferation cartilage

(most common)

5 Complete dislocation of the separated epiph just the detached surfaces having lost all contact with one another or some other very marked dis location. Because of roentigen control this probably occurs rarely. A moderate and sometimes even a fairly marked dislocation does not necessarily dis turb growth.

3 Marked damage to vessels with consequent lack of nutrition of the conjugal cartilage (only with

entirely intra articular epiphyses)

4 Fossibly in exceptional cases processes occur ing experimentally after epiphysolysis such as more indirect injuries to the conjugal cartilage without a direct lesson of this cartilage at the sep aration barriers of callus at the diaphyseal end and secondary degenerative processes in the cartilage. These probably produce only a temporary arrest of growth and shight shortening.

5 Infection (practically only in compound sep arations)

Except in dislocations and occasionally in cases

of marked damage to vessels and cases of infection it generally appears impossible to influence the

causes of shortening therapeutically

Consecutive arrest of growth with persistent shortening after traumatic separation of the epiph ysis occurs much more rarely in man than in ex perimental animals as in man there is generally no time for persistent traces because the period of growth is much more prolonged. Moreover, the conjugal cartilage in man seems to possess a much greater resistance even to direct mechanical lesions Direct injuries to the cartilage have led to persistent shortening only exceptionally Even if the prognosis as regards consecutive arrest of growth therefore appears fairly favorable it seems impossible in the individual case of ep physeolysis to exclude future shortening of the injured bone with certainty Ac cordingly it is wise to take this possibility into con sideration In such cases of epiph) seely sis combined with fractures of the epiphysis and the diaphysis particular care is necessary in determining the prog

With regard to cases with osteosynthesis through the conjugal cartilage or some similar damage the following conclusions are drawn tion was done with modelling of the bone ends to each other. In the two others hem; resection was performed the upper radio ulnar joint being spared. The authors believe that possibly this was a mistake as free resection (at least 4 or 5 cm a ecording to Olher) seems to give better results. The best results were obtained in the case of complete resection in all of the cases the most careful postoperative treatment was given. Woblization was begun from eight to ten days after the operation and for the first few weeks was given by the surgeons them selves The lunctional result was poorest in the case of a patient who as unwilling to carry out the post

The procedure described can be used not only in traumatic anh/losus but also in genorrhoral anh/losus that sho in genorrhoral anh/losus tuberculous arthritis (a case of which is reported) and cases of anh/losus at a right angle While the objection may be made that in the latter he sold uty of the joint may be damaged a fail many patients would park good technique is used and many patients would park good technique is used and many patients would park of the conclusion of the control of the contro

APPREN GOSS MORGAN M D

Putti V Wire Traction in Operatic e Elongation of the Femur (La tranone col fil nell allunga mento peratic odel femore) Ch d of of the first transfer of t

Putty reports nue cases of operative clongstion of the femur by wire traction of The patients ranged in age from fourteen to twenty two years. The indications for the operation were undistent dislocation of the hip operated upon by the method of Lorenz five cases congenital dislocation of the hip which healed with a marked cora vara external rotation shortening and mind flexion on case contils which healed with a marked cora vara external rotation healed in the flexion and addit tion two cases and healed in the flexion and addit tion two cases and spreadonly for treations was undicated one case in the last four cases osteotomy was indicated one case in the last four cases osteotomy was indicated one case in the flexion of the case reports the lengthening. The shortening in these cases ranged from 3 to to m. Yost of the case reports are supplemented.

with roentgenograms The technique is described in detail. It includes the application of fine wires for traction and coun tertraction followed by osteotomy and the applica tion of weights. Two millimeter wires are used One wire is placed in the supracondylar portion of the shaft and the other in the trochanteric portion The application of the upper wire may present difficulties because of the varied position in pathological cases Therefore the author inserts this wire under direct vision. The osteotomy is oblique. Its length depends upon the lengthening desired Trac tion is applied with the hip and knee joints in semi flexion at an angle determined by checking with the roentgenogram so that the axis of traction is fairly The amount of weight is determined on the basis of the age degree of development and weight

of the patient and the findings of roetig control series three days. The greatest resist lengthening occurs from the third to the sea days. After more thank to the series of the series is maintained for row more days. After apply space cast including the strength of two morehing produced to the series of the series of the series of immobilization. This is worn for two morehing movement of the Linea and leg is worn for months more

months more
The complications and errors which Pate reconstructed to date are listed. In only one ca, there evidence of paress of the esternal positions are considered to the esternal positions and the esternal positions are cashly by increasing the most of the same of the and temporarily decreasing the amount of its In two cases the upper wire was not securely, and re insertion was necessary. This has obviated by inserting the upper wire under vision. Since the use of the 2 mm, were the have not broken Countertraction is essent proved by faithure in the two cases in which not used. Of special interest is the fact that were no vascular disturbances in the extrement.

## FRACTURES AND DISLOCATIONS

Bergenfeldt E Traumatic Separations o Epiphyses of the Long Bones of the Estrer A Glinicoroentgenological Study (Bettac Ken tnis d'e traum tisch a Epiphysealoss aj d'n lairen Roehretkochend i Estremistic klini chronitgenol gisch Stude) 4da di Sta d'i 1933 Ixini S pp xxviii.

This is a report on 3 to traumatic capabilists arations in the long bones of the estimates of patients treated at the Surgical Clinic of the 1 Hospital Stockholm in the period from 19 1938. In all of the cases the diagnosis was we recent genologically and the patient followed Seventy two of the sparations which occur of patients were recent. To determine the pass especially the factors favoring subsequently of growth 19 cases of injunces of the conjugal lage other than true separation (mostly period the conjugal entitlage due to naisly were and the conjugal entitlage due to naisly were affected.

Traumatic epiphyseal separation occurs: more requestly in boys (32) of the cases returned than in guils (6) of the cases reviewed). It is common in the second decade of the (416 or especially the period from ten to se enten yet age (224 cases) and much less common in the decade (40 cases).

The lower radial ep physis was eparated in of the cases re newed the lower business in clower tubus in 44 the lower ubars in 24 the libular in 16 the upper radial in 8 the upper h in 5 the upper ubars and the trochaster min 2 each and the lower femoral and upper the rasse each.

With regard to the etiology the following clusions are drawn

1 Osteosynthesis with perforation of the conjugal cartilage connecting the epiphysis with the diaphysis is not associated with sun great risk as animal expensions usages to 22 the shortening of the shortening in teast the shortening to the cartilage and in the other to primary damage to the cartilage and in the other to primary damage.

1 If osteoly.nthesis is necessari care must be claim to avoid damage to the cart lage as much as poss ble. The use of Russler a mais for fination does not seem to arrest grow in Three cases of premature 3 nostosis (without demonstrable shortening) and it and the regarded as entirely blamester it is the control of the control of the complete in t

Bonnet G. Two Cases of Att arto Asial Dislocation. Without Spinal or Nedullary Symptoms Falure of Orthopedic Treatment Bolting With an Albee Graft as a Precuint on (Dec 100 obsert 1 see de dislocation alto-avo den e sases tro bles builto med il na Elchee du tartem to thopediq e Verrouilige de sie tel pag fi dille 1 Built 1 f 3 c n 4 et de n. 1 g 3 g 1 ag6

The author reports two cases of dislocation of the atias on the axis with fracture of the base of the odontoid process. The first was that of a cavaley man twenty-eight years of age who was thrown in jumping a hurdle and fell on his left cheek. The other was that of a man twenty years of age who was struck on the head by a heavy weight. In neither case were there any disturbances that could be attributed to injury of the spine or medulla Reduction was attempted by suspension and the application of a plaster cast. This treatment failed to correct the condition and is associated with the danger of sudden death from suppung of the bones and murry of the cord and medulla To eliminate this danger the author thought it advisable to fix the occuput to the spine by an Albee graft The operation was performed under local anasthes a in duced with novocain 1 graft measuring 10 by cm was cut from the tibia. The patient as placed on the table in a reversed Trendelenburg posit on with his head elevated his neck bent and his shoulders raised A flap was cut in the tuberosity of the occuput and the end of the graft engage 1 in it The graft , as then twisted a quarter of a turn engaged in a slot made in the spinous process of the axis and fixed in place by suturing the muscles over it with catgut around a small subcutaneous drain The head vas fixed na plaster cast

in the months after the operation there was a sold column of bose unting the occupar with a buf column of bose unting the occupar with the third cervical vertebra. In profile the nape of the the appeared to be a direct prolongation of the posterior surface of the occupat. Movement was still limited occurring only in the lower half of the cervical column. It is believed that the amplitude of the movements will increase later. What the method does not result in complete anatomical and functional restoration it profession between the present from the possibility of sudden death and secondary quadrinelegis. The operational state of the state of the profession of the performed immediately after the should be stored through the control of the state of

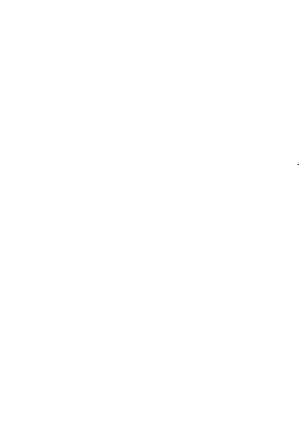
Speed J S and M cey II B Fr ctures of the Humer 1 Condyles in Child n J B & J t S f 1933 993

On the ha is of approximately 120 fractures of the himeral condyles in children the authors report in detail the results they have obtained in (1) nacomplete fracture of the cord qles without displacement (2) complete fracture of the condyles with displace ment which was treated by dosed reduct on and (3) complete fracture of the co-dyles with displace ment which was treated by immediate or delayed open operation. They call attention to the difference on the displace open operation. They call attention to the difference in the prognous and treatment of condylar and supercondylar fractures in children it be ng in the prognous of the fracture of the difference than in the prognous distributions of the former than in the fact assistances results in the former than in the fact assistances of the conditions of the conditions of the former than in the latter satisfactory results in the former than in the latter assistances of the conditions of the conditions

In their cases of incomplete fracture of the condyle without di placement the results were unifo mly good whereas in their cases of complete fract te with displacement which we e treated by closed reduction the converse was true. Even though in the second type the detached and markedly displaced condyle is reduced satisfactorily subsequent dis placements of greater or less e tent are hable to occur Much valuable time is lost by delaying open operat n and fixing the reduced fragments by means of a n il The authors believe thet if the fracture is seen se e al months after the mury with only moderate displacement and with the fragments ur ited in a reas nably good posit on it should be left alone if it s n t united or is in malposition the results may be improved by open peration but in cases of this type subsement epiphyseal charges are

common The authors discuss the operations for persistent pain and instability serous impairment of mo e ment and delayed ulnar ne ritis. In conclus on they state that poor results in cases of fracture of the condyles of the humerus in child en are much more f equent than s calized by the average su geon t eating f actures Closed reductions are at best un certain and non union and malunion can be p e vented only by accurate reduction and maintenance of close apposition of the fractured surfaces Delayed open reductions may be of some benefit but are followed almost uniformly by epiphyseal disturbances Accordingly the authors urge immediate open red ction with the use of a wire nail to hold the reduced fragments and removal of the nail after three veeks under local anæsthes a

PAUL C COLO A M D



# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

lemel R and Salitize V. The Therapeutic and the Salitize V. The Therapeutic and the Salitize V. The Therapeutic and the Salitize V. The Therapeutic and District V. The Therapeutic and District V. The Salitize V. The Saliti

Demel and Sgalitzer call attention to their pre Demet and Sameer an arrendom to ener the ings in a Jacke number of cases in which attended that and included one main and included the support of the su tags in a targe number of cases in a men arteriography
to seed was done with a 40 per cent or the peripuctativescent as uone near a 40 per cent solution of utoselectan of a 20 per cent solution of solution or disserting of a 29 per tent assumes of abrodil. In the cases of arterosclerosis and endartern appoint an tire cases on arreconscious and currenters. as counterains with associated peripheral augmospassed the pain was relieved at once and in some of them there was immediate improvement such that the patient became able to walk around for hours with patient occame anic to waik around for doors with out pain and to work. Moreover capillary microsout pain and to work Moreover capinary microscopy demonstrated that the size of the capillary copy demonstrated that the size of the capitally loops had again become normal. However the resulfs reported at that time had been under observa suits reported at that time had been under voserva tion only a few months the number of cases was ton only a few moning the number of cases was small and it could not be stated definitely whether small and it could not be stated demones, whereare or erca dela) ed by arteriography

Schweller has also occasionally alled attention to a therapeuric effect action property and attention of observations that arternography and are that the effect most the tast of the effect most observation of the effect most of the effect o

scutton of the yessels may also play a role. In this article send and Senditar report on obtaining a send of the send of Senditar report on obtaining the send of the send of years in any fact that the send of years in any fact that the send of years in the send of the s

the third of indicates obligans in which with the temporary of indicates amountain and to with the same of the control of the

endattents obliterins obliterins three assets of endattents obliterins and spans and one case of uncomplicated vascular spans pass of one of one see of mediate butch a record injection in ass stopped in that in hearty all of the other order o

y were more marked changes in the vessels which rule unlike in the recent congram were found as a function of the female and the portion of the female and the property of the temperature of the second artery of the vessels of the v

hem Recouly the authors have been using the entirely the hardless subcutaneous interests of experience as the control of the same and the statement of the same and the authors of the same and the authors of the same and the sa

y. The favorable spect of attangency was maintended to the fatted immediately after the increasing was maintended to the control of the contr



# SURGICAL TECHNIQUE

## OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Postoperative Compl cations Pallor and Hyperthermia in Pediatric Surgery (Coa and in perinermia in requarity surgery (con scenza d ila complicatione post tributo ana con scenza o na compucaz one post operatoria Pallo, pertermia nella chirurgia n

operatoria Pallo pertermia nella chirurgia fantile) P / 1 st Rome 933 zl z chir 5 6 The first case of pallor hyperthermia and sudden Ane uss case of panor hypertoernia and sudden death following surgery on the infant was reported by Tener and Let esque in 1914 Since then this

by actual and acceptate in 1914. Oince then time quently enough to command the attention of sur geons and pediatricians throughout the world rons and penaturians throughout the world.

The author reports seven cases in which the syn drome followed an operation for barelip hernia or congenital dislocation of the hip. The pallor and the congenities transcention of the temperature to 30 40 41 of even 42 uegaces a usuany occurred amountaneously tout six infecen or twenty four hours (seldom later) after peration and death was always sudden and un expected

At autops, no pathological changes could be At autopsy no pathonogenia changes could demonstrated in any of the organs of the body in cluding the endocrine glands and lymphoid tissues Death has been attributed to many diverse factors Such as angesthesia nervous shock and buthar such as an estimental nervous snock and purpar shock but none of these was found responsible in the author's cases

une author's cases Until the etiological factors are more clearly under Until the entological rations are more meanly under stood all efforts should be directed toward prostoon an enous snown be uneven conaro pro-phylaris Miani suggests (1) careful physical examination before operation (2) reduction to the easumentum vetore operation (2) reduction to the minimum of external factors capable of exciting the infant (3) the preservation of body heat (4) the nature (3) the preservation of body fluids during and

patter operation (5) gentle handling of the viscera (6) the conservation of blood whenever possible and (7) the administration of fluids by nasal or rectal tube immediately after operation

GEORGE C FINGLA M D ng D S Postoperaure rumonary compacts the Part Plated by the Anasthesia as Shoun by a Two Yea a Study at the Massa. onomin uy a two tea s omog at the chusetts Gen ral llo pital Aner & 4 al

King reports a study of the postoperative pul monary complications occurring in the general nonary computations occurring in the Sciences Street which includes 30 necology at the surgical service which methods & network at the Massachusetts General Hospital during the years 1930 and 1931 Cases of proved pulmonary embol 1930 and 1931 Cases of proven purposes semantism exacerbations of pulmonary fuberculosis and

emprena were extunuen

When pulmonary complications were carefully
ratched for they were found to occur very fre

quently after abdominal operations particularly operations on the upper abdomen and seldom after operations of other types

Their acidence was greater in males than in their minorine was breaser in maies town in females. They occurred much more frequently after tenates they occurred much more inequency are intestinal operations and operations for perforated attended operations and operations for perforated their sample gastro-

Definitely more complications appeared in women Definitely more complications expected in some following drainage of the appendix than after opera

house we need be measurer. Pre existing respiratory infection and the season of the year were found to be factors of minor

oporanice Lulmonary complications developed after all types of anasthesia. They were slightly more frequent or anesaturna anesthesia than after other anesthesia and more common after local than after spinal and more common area awar man area opinion and area opinion.

The number of cases in which introus oxide oxygen and avertin were used was too small o warrant definite conclusions The relatively high notes complications after spinal anasincurence or tacse computations after spinal anaesthesia was some what inducated by the fact that the torsia was some that minurated by the fact that the cases in this g oup included a slightly greater number of poor general risks. However in this group

Cases operated upon under local anasthesa

operated upon under local anasthesa chases operated upon under oven ancademass. showed the greatest number of chest complications but this group also contained a higher proportion of poor risks More of the complications in this or poor trans more or the computations in the groups in which ether or spinal anasthesia was used

These facts show that the anasthetic pe eis not responsible for the pulmonary complications The use of carbon dioxide inhalation to increase

the depth of resp rations has been disappointing The sene al condition of the patient rather than the operation or the type of angesthesis is the most the operation of the type of amesinesia is the always important factor in the development of postopera

Abdom nal operations interfere markedly with respiration so that broached secretions are retained respiration so that becomes serretions are retained instead of being expelled. Another important factor asstead to being expensed amount of broach al

secretion after such operations regardless of the secretion after such operations resumes on the type of anaesthetic. The explanation of this fact is not clear The problem of the cause and prevention of post

operati e pulmonary complications has not as Jet operate punnounty computations has not as Jet been satisfactorily solved. However, it is known that among the preventive factors of importance are care to limit fraums to the minimum during open tion stillful administration of the anasth lic and companies assumed to the companies of the patient causing with frequent chang ing of the patient's position



initial dose of 3 c cm. of 2 25 per cent solution followed by a gradual increase in the amount to 6 or 7 Ccm in twenty four hours Spinal injections should not be given to children under ten sens of sarouto not or sixen to enturen outer ten years of age. In the cases of children between ten and ta enty Sears old the initial dose should be 3 ccm of \$ 32 per cent solution This procedure is of advantage per cent solution and procedure to or autamation because the smallest doses give a certain and sus fained effect. 1 possible respiratory paraly sig is not a quaterness comblication if stringers teshriston is Continued sufficiently long The intraspinal adminis tration of magnesium may be combined advantage ttation of magnesium may be communical auraciases ones), with the intravenous injection of larger doses

in conclusion the author discusses the use of sedatives and local anasthetics particularly avenue Arymor A

F age de latenten Gasusfektion) lore k. A. k.

As the result of the extensive experience gained during the World War it became known that gas bacili are capable of remaining in a latent state both in the deep tissues and on the surface of the bod. They require only fatorable circumstances to flare up and multiply rapidly According to the to make up and multiply tapidly according to the interactive their average period of latency is about one sear

ne year The author reports a case in which the gas bacilli rine author reports a case in waite the gas vicin persisted for a period of fifteen ) cars in the leg of a man thirth eight leats old who was woninged dating herzoren not a herion or mireen leats in the ite or a the World War Gas mection developed following an operation for pseudarthrosis (bone suture and an operation for pactualititions to the surface and feed bone transplantation) and terminated fatally tree voice transponnation; and terminated tatany after a few days. Bacterological examination of the pus revealed Gram positive d plococca and per iringens bacıllı

To answer the question as to how one may guard against the development of latent gas bacilly the against the development of the test gas daring the case of a man lifty one years old autous reports the case of a main may one years out whose left arm was amputated following a gunshot hause lets assus man assignment of sas-bacillus infec non-many new neveropment or sea-parents mice toon. Eight months after the operation the anaerobes were discovered in the wound secretion (pus) of the humeral stump in association with esteemic this of the stump the stump introdustrial injections of auto-gangerne serum (to c.cm of serum and 100 c.cm Intramuscular injections of anti-Sanstene security to cent of second and too cent of physiological salt solution and seven data later or pury sources as see sometime and seven wave sever 15 ccm of serum and physiological salt solution) were made Following this treatment the Gram

were made Pollowing this treatment the Orani positive diplococci and perfringens bacilli dis postate unproceed and pertungens dated the appeared but the ordinary pyogenic cocci remained appeared out the occurracy by obtain contact communication of the humerus was followed by re-

Nery The author concludes that when an ordinary sup-Aue author continues that after a gas phiegmon with penante unexciou perants arets a gas puntamon according should be a favorance course the would bettern bround to injections of anti gangrene serum should be made after every operation for gunshot wound

Galii R. The Bact riophage in the imbulatory If R. Ane Bact riopnage in the unionatory at atment of Localized inflaminatory 1 morestee (iii batter 1450 nella u a ambul tona delle leuo 1 il gistiche local zzat ) in

The practical application of the bacteriophage buuchle is apont (eu ) cats old Latotaple and etcu principle is account con peace one a sociation and even brilliant results have been reported. However the brevity of reports in the Italian literature suggests that in Ital) bacteriophage freatment has not recerted ten side attention. Only Ucssandrini and Dona (in 1924) and lacetto (in 1931) hate at tempted extensive laboratory and clinical observa tempted extensive introduction and changes where the former tions of the effect of paternophage. The former sorking with polyvalent and typhod phage reported fashe results in 50 per cent of their type per control their type in the problem chirally and their problem chirally and their problems chirally to be a type of the problems chirally to be a type of the problems chirally to be a type of the problems. perimicals a ne latter studied the product contemporary in local p) ogenic infections. This seems to be the field in which the most encouraging results are ob

D Herelle believed that the phage is a living ultra Defense sensecut and the phase is a name and and microscopic virus which works infracellularly killing and is zing the bacteria and multiplying at if er ex acus some bacteriologists attribute the effect of the ph ge to an enzymatic action occurring outside of or within the bacteria and possibly initiated and in reased by the active principle. Others think that it creased by the active principle. Others think that it is due to a change in the colloidal suspension of the bacterial culture

The size of the bacteriophage particle has been estimated at 1/30 000 of a micron Centraligating at 12 000 revolutions per minute will carry it d an It res sts higher temperatures than bacteria Cer te res sus numer comperatures (nan national certain antiseptics are able to machinale it. Its action is inhibited by an acid reaction of the med um and

even by normal saline solution but not by water I hages are ubiquitous and may be found in any fluid which is contaminated by exceta e pecally by the facal matter of contalescent patients. They are the sacai matter of conveniencent patterns array are casely isolated by filtration. They vary in potency casiny isolated by Hatation They vary in potency when first isolated and their potency may be in-creased by isolated and their potency may be in-dictionous repeated passages. They may have the deleterous which test their jet earlies During the bacteria which test their jet earlies During the process of gross lysis swelling and loss of c l rat a of the bacteria may be obserted on microscop c examination When the lysis is complete nothing can be seen. With the ultramicroscope small bod es may be seen within the bacteria during the price s of is When the cells break they are discharged into the surrounding medium Mier complete n of the b sis even the ultramicroscope about nothing

The bacteriophage is harmless and can be given in large quantities and transmitted from person to per son with the production of er genous resistance. It may be given by mouth rectum or bladd r intra sensity subcutaneously or by local application Vithough intrasenous administration is most effect the it is often f llosed by severe reactions. Local injecti na are safest Subcutaneous injection at a site distant from the lesson is not so effective and

G Attrov (Z)



proper use of these angulatics however the angulation and angulation must be shilled careful and able to augmentations in the content dosage of the gas for the guice

In conclusion the author says that it is non every in conclusion the author says that it is non-every where realized except perhaps in France that the induction of anisathesis should be infrusted only to account the same than the same induction of anciental anoma of minuses only to peculists. It is a hopeful sign that young French pecialists, it is a nopeint sign that young return surgeons are beginning to demand professional surgeons are occurang to demand prosessional anasthetists. In time no doubt France will have anaphicus an one no avast trance put make the same and schools Druener I

ELLA VI SALMOVSEN lener 1 Local and Conducts in Americans the B terobung and Le to Stand 1- th Stand 1- to S Local and Conducti n Anasthesia

unce in the presence of hypersensitueness apnate at the presence of hypersensity eness up, patently harmless local anasthesia may damage the parcury marmics was amaziness may conserve the concentration and quantity of an anax tassues the concentration and quantity of an anxist their used should always be the minimal concen tration and quantity that will meet the requirements tration and quantity that warmers the requirements.

The injection hould be made only where the swell ng ne injection mouto oc matter out) mirror the amend and produced thereby will be visible as under these produced thereby was be visible as under these conditions injection into a blood tessel will be

On the basis of the principle that the anasthesia On the basis of the principle that the anasthesia should be limited to the regions in which it is re quired by the operation, the author recommends for quired by the operation the author recommends for example conduction angulation of the targe for example conduction anasthesis of the scatte femoral objurator and amenuma of the Sciatic temporal populator and femoral cutaneous nerves. The first two nerves are

exposed under local anasthesia so that to c cm of a feer cent solution of norveath may be injected a 1 les tent sommina ou movocana may ve injected directly into the nerve trunk. Ten cubic contineters of a 1 per cent solution of nos ocam are then injected about the other nerves.

Conduction anasthesia is recommended also for Conduction anxiously is recommended also for abdominal operations. As the next es always he in

ammediate pr ammit to the vascular trunks they tenneouste pr same) to the vascutar strong ones, the find by inject ing in the neighbothood of the vessels. The vascular ng an ten neighbourhood of the vessels. The vascular annishesia Troduced by injections around the appendicular artery permits painless removal of the appendix For gastric operations injections are made about the four accessible gastic arteries and after division of the stomach the branches of the tripod of urranous or the scioused the avenues of the tripbut of faller. Taking an infussusception operation as an example, the author shows that after injections about the subction mesentetic attern an extensive about the solution may be done nithout causing pin. This procedure is preferable to splanching anesthesia as the latter gates adequate anesthes a only for as the latter gives appendix anaxines a only for operations in the upper abdomen Spinal anaxinesia. operations in the upper according to the new method of hirschier has the disadiantage that in abdominal operations it almost always requires local supple

operations it annuest strongs requires near suppre-mentary anasthesis. If complete freedom from pain is desired at least the clic segments must be excluded is country at sease the second ceutre is associated with danker many conduction conception adupte focal analysis and community analysis in the form of vascular analysis in preferable A. BELINER (Z)



Carcinomata of the breast as a group are rela Carcinomata of the breast as a group are retained to the the tricky radioresistant. The author is not impressed that the interestinal method of attack in their carcinomata. treatment The diffuse duct cancers are usually radioscustive to external arradation Radiosensi tivity of breast cancers is difficult to predict accu trity or prease cancers is constant to presset actually disease often exhibits satisfactory regression Many dermal and skeletal metastases ickicsona many uccuma and sacretine uncustances yield remarkably to irradiation with relict of pain June 15 June 25cs of breast carcinoma in Joung women roentgen castration seems to increase radiosensi

The cervix tolerates enormous doses of irradia tion. The cellular anaplastic varieties of carcinoma ton the centural analysastic varieties of carcinoma are highly sensitive. The author believes that there as an ingury sensitive and author peneves that there is little if any relation between sensitivity and core antice it any testions between sensitivity and enter the methods of treatment generally employed in cases of chidermost carcinoms of the certain There is little literature on the relationship of struc tire to radiosensitivity in carcinoma of the body of the uterus Statistics are numerous on curability but not on sensitivity. Many of these tumors are but not on sensitivity hany or these tumors are superficial and yield to the caustic act on of radium The epidermoid carcinoma of the vagina and vulva is similar in structure to that of the cervix and is suiture in structure to that of the cereux and tends to respond similarly. The re-ponse of myoma of the uterus is probably due to the effect of 1873 of the attents is proposely due to the effect of the M) osarcoma is rare. In only one of the author's cases was the lesson markedly retarded and after four) cars the disease is showing activity lot much 10 known concerning the correlation between tumor type and radiosensitivity in ovarian tumors. The diffuse empty onal carcinomata are radiosensitive ontuse empryonal caremonata are radiosensuive often markedly so. The lower grades of papillary oran carcinoma vield very well to irradiation Valignant granular cell carcinoma lends to be radio

Among the mal gnant tumors of the kidney the papillary and solid renal adenocarcinomata and the b) pernephromata are quite radioresistant. Although n) betteeparomata are quate ransoresistant autosugu Wilm's tumors are often extremely radiosensitive while a tumora are orten extremely radiosensuive recurrence is almost inevitable with acquired radioresistance Contrary to the behavior of neurogenic tumors small cell neurocy tomata of the supra enal gland are markedly sensitive

Radiosensitivity of embryonal carcinoma of the Astunocuments you can you a care on the tests is dependent upon both histological structu e tests is dependent upon both miscongular structure and anatomy. Teratomata of adult type are radio and automa, a clausulate of adult type are fault resistant. Adenocarcinoma is moderately sensitive resistant successful and prone to form extensive and hopeless metastases. Embryonal caronoms with hopeless metastases. in phoid stroma is highly sensitive. The metastases ay mpnous stroma as angun, sensitive the increasures of embryonal ca cinoma of the testes are prone to of emoryonal ca chioma of the teach are proud to be more sensitive than the primary tumor or lesion

e mine sensitive than the primary tumor or resion In cases of tumors of the urinary bladder the re an eases of traduction are not encouraging. Little is suits of irradiation are not encouraging there is definited, known as to the elation of 5 as t vity to structure

Of the care nomata of the thyroid the papillary of the tate houses of the taylors the Papulary adenocarcinoma (Crade 1) is relatively sensitive adenocarcinoma (Grade 1) is resatively sensitive aden carcinoma (Grade 2) may or may not be

relatively sensitive the spindle cell and giant cell carcinoms are very sustant and the found cell Carcaoma deficult to diagnose is radioresistant Benign grant cell tumors of the bone regress fa

Henup man cell tumors of the bone ferress in orally with moderate therapy probably because of a slow process of scleross. The cart factors stantation of this tumor tends to do well affect it or the control of the cart factors. Variation of this future tends to up well still radiation. The aneurismal type is less security and the control of the control If a giant cell tumor has broken through its capsule the re ponse is less satisfactory Sclero ing osteo Senic sarcomata are extremely resistant Ostcogenic Senic satisfinata are extitutary resistant. Consequent Chondrosarcomata may regress under massive doses

tamatrosatcomata may regress under massive dose but nearly always recur I emosteal osteogenic sar coma is resistant but not as markedly resistant as the sclerosing type Small cell osteogenic sarcomata the sectioning type of man ten volvegents particularly of the cellular telanspectatic type tend to show marked regress on Large pundle cell and grant cell telanspectatic actuals to himself and grant times close with recell telangicetatic osteolytic tumors show little re ten terangueranic osceoly in cumora soon mine te Bression Destructive osteoly ite sarcomala tend to gression benefit occupied accommon and control of the feet after regression is a pall after measure in radiation is often very helpful in many resistant in the state of th Opes impongations to activation and activations are highly radiosensitive. The various my clomata are migary tautosculative due various my clomata, the plasmocy stoma my chlastic me in curvatat the plasmocy stoma my colastic my elona are exceedingly ra and i) mpnoid m) ciona are exercisus; ia diosensitive tumors Metastatic lymphosarcoma to bone and Hodglin's disca e in bone tend to be some and risogams disea e in come tend to one sensitive. Liposarcoma of the bone is moderately

sensitive hiposarcona or the house a monatorio to markedly radiosensitive. The xanthomatous ventogenic satooma neurinoma s hwannoma per pheral ghoma and permeural abroblastoma are ter part to be radioresistant although certain taptet) apr to pe rautoresistant attituuga certain 19, idly growing tumors called neurogenic sarcomata have shown marked sensitivity. The so-called nave snown mather sensitivity and second fascial safeomata are resistant litted atton being usually unsatisfactory

Liposarcoma contrary to other soft tissue sar comata is moderately to markedly radiosensitie comata is moderately to markedly radiosecusive Melanomata are almost uniformly highly radio resistant about 2 per cent showing some degree of Sensiti ity Many vaneties of angiomata occur sensus us stany varieues of angiomata occur which vary in the r sensitivity. Lymphangiomata are highly resistant

Basal cell epitheliomata are relatively radiosensi tive except when adenoid features are present tre except when aucuous scatteres are previous insufficient irradiation increases the re-

stance of the tumor and decreases that of the tumor bed The lymphoma group including lymphoma ore the temporary from the tempo symptometrome is impropriationing and releasement are radiosensitive many of them markedly so Thymona are frequently disguest fortigen-Any mouna are nequently chagaosea themselves fraphically and often regress under mad atton but are difficult to verify at autopsy

Tumors of the brain as a group exhibit little adiosensitivity Astrocytomata and medulloblas-tomata probably are benefited most by irradiation Certain types of p tunary tumors are somewhat adosensative. Information with regard to the be bayor of orbital and bulbar tumors is scant Neuro epithehoma of the retina and retinoblastoma have epithenoma of the retha and rethnomastoma mave shown some regression but recur as a rule. Cures



## MISCELLANEOUS

## CLINICAL ENTITIES—GENERAL PHYSIO LOGICAL CONDITIONS

Marx J. The Effect of Carbon Dioxide Inhalation on the Cossulation of the Blood (Die Witting on the Congulation of the Divos the Director der Kohl nea u e Einstmung auf die Blutgerin nung) Ort 1 hei f 1933 p 728

lanous investigators have emphasized the ac celerating effect of carbon dioxide inhalations on the coagulation of the blood. In cases of parenchym congulation of the blood in cases of parenchym alous hamorrhages which are difficult to stop atous ozmortnages union are cumcuit to stop (cholzmia uromia) mucous membrane homor thages (bladder nasophary ngeal space) and post trages (manuer nasopnar) ngest space, and post operative harmorrhages (diabetic carbuncle goiter) use is made of telechamostypiic substances calcum toe is made of telephagning) per substances (calculum preparations). Does serum parath) fold extract) in preparations during section Parating roug entraces in addition to the usual tamponades. The action of these auribary substances is undetermined

In the practical use of carbon dioxide it is possible to obtain a teleohamostyplic action simply by in halatton in contrast to the hitherto customary in negation in contrast to the interest customary in jections and the intravenous injections advised

The first series of experiments reported by the author were carried out on guinea pigs to determine the effect of carbon dioxide on the bleeding time and lotting time Following incision of the ears or cardiac puncture carbon doxide up to 5 volumes per cent was carefully introduced from above into the cent was carefully introduced from above into the containers in which the animals were placed. In the second series of experiments ten patients who were about to be subjected to hermotom) were studied with respect to changes in the bleeding and clotting with respect to coanges in the occurring and crotting time after the inhalation of carbon dioxide by means of the \italer apparatus the first aid apparatus ordinarily used in the treatment of asphysia result ing from poisoning drowning or hanging

in normal persons the dotting time was diminished by 33 per cent and the bleeding time by 70 per cent after a five minute period of carbon dioxide in diet a use minute period of carood dioxide in halation. After a fifteen minute period, the clotting nature of the state of the stat ing time by 30 8 per cent. A quarter of an hour after ing time by 30 o per cent duranter or an investment the inhalation the thrombootie count was increased by 27 Per cent Practically these findings in by as per cent fractically these undings in dicate that after a single inhalation as well as after uncate that arter a substitutional will as after inhalations lasting for four or five minutes and re innatations tasting for four or tive institutes and re-peated at intervals of from twenty to thirty minutes a cessation of parenchy matous as well as of capillary hamorrhages may be expected

The advantages of carbon dioxide inhalation are summarized as follows I It makes the inconvenient and by many e

at makes the incomment and of months (garded as dangerous intravenous injection un garuen as usugerous intravenous injection an necessary (naccessable veins the possibility of paravenous injection and thrombo s of the vein)

As a preparatory measure bef re operation the inhalastic manufacture of the administration of the inhalation can be entrusted to a nurse The action of the carbon dioxide inhalat on appears more rapid than that of medicaments appears more rapid than that of men hitherto employed to hasten blood clotting

inerto emproy en co nasten suova ciotenga in undestrable effect has never been observed at any time. At the clinic of Bakay in Budapest carbon any time for the cume of bases in autoapest curve dioxide inhalations have been used for years to aerate the lungs at the end of angesthesia

In spite of its advantages carbon dioxide inhalation cannot be employed indiscriminately in all fation cannot be employed format cases of heart disease and cases of heart disease and cases of he blood pressure it is contra indicated

The author recommends the use of carbon dioxide annalations in cases of parench) matous harmorrhages and as a prophylactic measure from ten to officer minutes before operations which will probably be annutes vetore operations winca will providely be considerable parenchymatous hemorrhage

Teneff S and Musso E The Hamoglobin Le vi and the Function of the Lity rin Surgical Dis-terior Communication of Communication of Line ano the runction of the Liv rin outside Manager and in Relation to Operation and Annea eases and in Relation to Operation and Ances the significant mb o emogle bin to e is found asked. cri sia lis su mo o emogi vin co e sa suna epatica nelle malastic chirurgich din Poort inter ento II ast 1a) CI n k 1931. t to

1933 IX

Teneff and Musso report observations they made on the hamoglobin level in (1) valous sury many on the actinograms ever in (1) various surgical conditions (2) the postoperative period following operations of varying severity and (3) following In one case of tuberculosis of the knee three cases

an one case of tuberculous of the knee three cases of postoperative of past of the case of appendicts and one case of neer times cases or appendicutes and one case or inguinal herms a definite increase in the climination of prophin was found in the one case of chole of account was toung in the one case of choice Castitathere was no change. The authors believe that the increase was due to a certain degree of hepatic insufficiency and possibly also to individual variations in the elimination of the hamoglobin dentaines

In the postoperative group of cases studied an in the postoperative group of cases secured was made to find a relationship between account was made to min a retailment occurrent the hamoglobin and hepatic insufficiency it has the meanuscount and nepatic insunmency it has been shown chincally experimentally and histoocen suown cunicati) experimentati) and mistorially that chronic infections especially appendi cells complicated by colitis may senously impair that computation and that slooped errors in diet con stipation and various constitutional factors may fend to suppress an already lowered hepatic func tion 1 a varying degree A decrease of liver function may be latent or well compensated, as shorn by the fact that in the pre-operative period of observa tion the excreti n of b le may be normal but post



most of them cyanophile and some of them acid most or them cyanopane and some or them and resistant. Later these fine granulations disappeared constant trates there are grammarious mappeared almost entirely and were replaced by occur and annus cuntrely and were replaced by cocci and coffee bean shaped diplococci. These in furz gave course or an analysis of facely branched mycelial fibers in the masters of which there were still some dipin the messes of many there were succeeded by slender bacilly Anche were distinctly and last and very similar to young cultures of tubercle bank youngan to work authors thought they were about to bottom pure authors invuger they were about to obtain pure cultures of acid fast bac li the bacill disappeared continues on acoustant that in the vacual unsupperated again and the whole cycle began Statutes appeared again and the photo of the began over again. Now after seven or eight months the

collures seem to have become stabilized in the form cultures seem to have vectome stammers in the torn, of granules and diplococci intensely acid fast in a c) anophile m) celial reticulum The lessons produced by these vanous stages of the virus varied from purely inflammatory lesions the vitas varied from purey inflammatory resions for the granular forms to a tuberculosis with cold absce ses for the bacillary forms. The bistological pictures showed epithelioid cells grant cells and

The authors are therefore convinced that mal g nant granulomatosis is an at pical tuberculosis pro nauc grammonacous is an anjunal mociculous produced by an ultratifus. The polymorphism of the Once of an university and polymorphism of the polymorphism of the cyclical evolution explain the variability and completity of the histological picture of malignant granulomatosis. It is true that picture of mangaant Statemenators are true that the inflammation and bacillous produced by the the munimization and various products by the filtrable virus differ clinically and anatomically from malgnant granulomatosis but the same tre ponema produces chancer and general paralysis Onema produces tournets and scores particle contains Colored Photomicrographs showing the different forms of the virus

Hones E. L. Bridge H. Shea R. and Harvey S. C.
The Effect of Complete and Partial Starration
The Property of the Complete and Partial Starration
The Complete and Partial Star

The Enect of Complete and Faccine Chairman on the Rate of Fibropia is in the Healing 8 1933 II II 640 The effects of complete and part at starvation on the healing of wounds are of fundamental importance the neating or womans are or runnamental importance to the surgeon but in the clinic it is not always poss ble to establish the exact nature of a mai from one to cell whether prolongation of the heal and time of a Surgical 1 ound is the result of mal

The authors report an experimental inv shigation which they carried out on rats with incised wounds which they extrict out by rate with missey wounds in the stomach to dissociate complete and partial in the stomaca to dissociate complete and partial startistion from maintiffing of other types and to study their effects on healing wounds. To a certain study their energy on meaning wouldes are a contained the strength of the would was found to be directly proportional to the degree of healing at the national states. enterion of the rate of repair

Theoretically according to the findings of pre-Autoretically seconding to the lindings of pre vious experimentation, starvation, hould not delay yous experimentation starvation noting not oreast the healing of a wound but actually there are distincting factors in association with complete or tations antion in association with compacte of partial starvation which cause sounds to show not partial state annual minute cause mounts to soon, not as a acceleration of healing but a slow rate of repair

Therefore the common bel of that complete or partial Anercure the common our create comprete or partial starvation delays the healing of wounds may be correct as regeneration is only one phase of healing The rats studied by the authors are edivided into And rate secured by the authors were divined into groups of adult rate and groups of soung rate which Stoups or audit face and groups or Joung face non-Rounding of the stomach

outning of the stomach if the as found that in adult rets the rate of return of bealing strength in wounds of the stomach was of nearing strength in wounds of the stomach has affected by complete startation not appreciately anerical by compacte Matvalum. Aeither was it affected when one half the required Average: "nas it anected when one may the required amount of an adequate thet has given over a short

In the Joung rats the effect of complete and An the joung rats the enert of complete and partial startation on the healing of wounds was Pattiat starvation on one nearing or wounds was quite different. With complete starvation 1 fe was quite outsetence with compacts start across the maintained long enough for satusactory deter not maintained song causes for Sectionation visits maintained song causes for Sectionation of the breaking strength of the healing mination of the breaking strength of the meaning wounds. With partial starvation, healing postered would be the fifth day and then became defately slower The retardat on of the healing of vounds in the stomachs of Joung rats on restricted diets may

scomacus of young rate on restricted mets may possibly be explained by a reduction either separate possing we capitation of certain elements of the diet A or in communition of terms a elements of the oler. These elements are pr. habby the vitaming especially to comb nation with deficiency of proteins and salts The study reported demonstrated conclusively the remarkable ability of wounds of the stomachs of remerisable about or would of the acoustics of adult atimals to heal in spite f great arrations in auun aoimais to near in spite t great ariat ons in the amount of food consumed This abil ty expla ns the clinical success of various postoperative detary the runners appear of the time to the the feed us is begun and the amounts of food g ven

Montgomery A II and Wolman 1 J Cocys at Ch redomata in Child n ELLA VI SALW YSEN

The authors review 108 cases of chordoma collected from the current literature Fifty eight of the tumors had a sacrococcy geal location. The of the tuniors had a socious year covarion as exerge age at which the patients came under ob average age at wanta the patients came unner on servation was forts nine and no tenth years. Only servation was sort; muc and no tenta years vale 1 case of sacrococy feal chordona in a child c uld be found in the lt rature but the authors hav be sound in the stratule out the authors was, served and rep it in detail the cases f 3 5 mag

In order to understand and rec gaize these tumors a knowledge of the remote into output is necessary The term Chordoms 12 present usage is restricted to the malignant form of the tumor and is not applied to the innocuous small nodules that may b appured to the same coops small requires that may of found in the floor of the skull. Cae domata are

Sometimes referred to as chordoblastomata sometimes reterred to as constitutional chordocarcinomals and chordomal grown A chordoma gr chondroms or a c floid carcinoms but its my o COOMFORM OF A C HOLD CARRIDOMA BUT ITS MU O SCOPIC APPORTANCE IS CALL ACTUSTIC. The Type I cell is large integral and optible um but The type I cell defined margins pale attaining cytoplasm and a large wearing muchan. Margineria Hold the times large vestcular nucleus Macroscopic lly the lumor



son s disease. It is concerned with appetite and sous unsense at a concerne with appeare and institution the ingestion decession and assumitation of food energy transformation blood volume cir or two energy transformation whose volume to collatory efficiency, and the processes of oxygenation and hy dration in the body

Another substance in the cortex of the adrenal Abouter suppressed in the curves of the superior and fall superior and fall curves and fall cu is exturous and an isomer of grantique and an isomer of Scott Groups, who is soluted it this standard of the control of Scott Groups, who is soluted it this control of the control of the

18 identical with 3 stantin a stronger control with phenol color reactions we to and pethaps in titis and may possibly play a role in p smentation tite and may possibly play a role in p generation. The address cland particularly the cortex a concerned in some any with the development and time of the months of the second state of th termen at some it sy with the development and time tion of the gonads. This is evidenced by sex changes tion of the gonates (into 18 evidenced by sex changes observed particularly in patients with cortical fumors By home Rodably Marine the suprarenal control of the control o tunors by some moracity matthe the suprarenal fand, 15, believed to be involved extensitely in exophthalmic goiter

Hamorrhage in the adrenal in the nemborn is usually fatal

Tumors of the cortex of the suprarenal in the fetus Aumors of the cortex of the superiorm and the congenital pseudohermaphroditism in the maint to pubertas preconnermaparonitism in the adult to

The treatment of cortical tumors is surgical Ame treatment of cortical runnies is surgical at removal of the tumor is undertaken prior to the development of metastases, it may result in per manent cure and complete disappearance of all ab normal chinical manifestations

Treatment of the gland by deep roentgen ray or Attended to the feater by near themselves to the radium irradiation when operation is contrained. radium standardon mich operation is contra mich operation is contra mich operation is contra mich operation in some other reason may prove belpful temporarily

y prove account temporarity

Medallary tumors are of three varieties neuroblastomata (2) ganglioneuromata and (3) neuropiastomata (2) ganguoneuromata and 13) paraganghomata The neuroplastomata run a rapid paraganguomata tue neuroosaasuumata tuu a sapaa and fatal course and metastasze freely particularly to the scalp shull and vertebre. Ganglioneuromata are benign and occur usually before the twentieth year of age Paraganguomata are made up of

The treatment of these tumors is surgical The character of chauston chronic fatigue emacat someone of catastanou unounce fatigue emacation a low basal metabolism a low blood pressure and loss of libido and potentia is blood pressure and loss of holdo and potentia is frequently diagnosed as hypo adrenalism or hypo-

In 1855 in describing the disease to which his in 1055 in describing the disease to which ma name was given Addison said. The leading and name was given monison said the reading and characteristic features of the morbid state to which I would direct attention are anomia a serveral langor and debility a remarkable feebleness of the heart a action irritability of the stomach and a peculiar change of color of the sam occurring in connection with the diseased condition of the supra

The remote cause of this disease from the practical point of vie y is tuberculosis of the gland in 80 10 point of viev is autoricatous of the beauty in ou to 90 per cent of the cases and atrophy of unexplained ongia in 10 to 20 per cent. The disease is rare origin in to the several time inscape in rare as Jears and taice as common in males as in females

It usually passes through three stages The first At usuany passes survoya toree stages are unsessage is generally characterized by unexplained stage is generally customered by ourspianers and exhaustion after an infection of the weapers and consussion area an automore or me upper terpiratory tract. Any second stage that of the 1 pical clinical syndrome is easily diagnosed In the third stage collapse occurs with names voming deby draton and toxama

The onset is usually insidious but occasionally acute The most prominent symptoms and s gas in their usual order of appearance are (1) asthema and fatigue (2) pigurentation of the skin and muchanac (4) announced parameters are (1) associated and membranac (5) announced parameters and announced parameters are also announced parameters and announced parameters are also announced parameters and announced parameters are also announced par membranes (3) Abovens bauses and bomicing membranes (3) aboretta hauser and tomutog (4) loss of weight (5) arternal hypotension (6) dzganess and syncopal attacks and (7) dehydration and complainty failure. and circulatory failure

no circulatory samue Addison s disease usually pursues a downward Course with remissions and with acute exactly along the acute of the state of the s which often attain the severity of a crisis. The short randoured actain the septimy of a setal sect duration of record was eighteen days but about a dozen patients have survived ten Jeans

As a rule the diagnosis can be made on the basis of the active one consumers and we make on the basis of progressive astheria gastro-intestinal initiability progressive assuments gastor-intesting irritation by pigmentation of the sam and mucous membranes feeble heart action and low blood pressure par treme meats action and now moon pressure par ticularly when these occur in a patient who has or

The treatment of Addison's disease is undergoing a gadeal change The important considerations are a father thanks the important commensations are
(3) Seneral care of the patient (2) substitutional

of the underlying tuberculosis

(1) soneral care of the patient (2) substitutional reality with cortical hormone (3) the prevention consusperment of dehydration and (4) treatment of the consumption The aqueous soluble cortical hormone of the adre As a queous somme control numbre of the aute and part of the source of t not beautionated by swingle and a maner control to chinical manifestations of adrenal insufficiency in mediately in the vast majority of cases if it is green in adequate amounts and at proper intervals. The most potent preparation contains approximately so dog units per cubic cent meter an amount representative continuous approximative of the continuous approximative of the continuous process and the continuous process are continuous approximative of the continuous process are continuous process.

dog units per conc cent meter an amount representing the normanal content of approximately so scaling the normalist content of approximately 30 gm of fresh adrenal glands of this preparation sm vs. tiesu autena granos vs. turs preparation 2 to 5 c cm given daily intravenously or subfrom 2 to 5 c cm given gamy intraversusly or successful should suffice Eschalin the commercial product available is somewhat less potent and faculty available is somewhat less potent and should be given intravenously in amounts of from

The prognosis of Addison's disease is extremely grave It is largely the prognosis of tuberculous The most important single chinical prognostic index and most important single current prognosic most in the body weight only those who cat and gain Shelling D II Ash J THORNWELL WITHERSPOON MD

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In reviewing the recent literature on the effect of the injection of various amounts of parathyloid



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Abscess of the lung Cenarios Soc de ciris de Bucnos Aires, 1935, AVII, 1140

Puln onary abscess L A GARCH and C A I MANAQUE

Seminined, 19,3, M, 13,4 Abscess of the lung J MENANDER and C HAIGHT

J Michiga State M Sec., 1933, xxxii, 657 Lung abscess after tonsillectomy. I P Risson and L McGolrick Brit. M J, 1933, 11, 1020

Bronchicctasis M L I Lovin J Iona State M Soc,

1933, XXIII, 668

Melectric bronchicers D BATEMAN Proc Roy

Soc. Med, Lond, 1933, xxvii, 121
Upper lobe bronchicetasis E H Rubix and H S NEWELLS Am I M Sc., 19, 1, cleres, 650 Unsuspected chronic bronchectusis from inhibition of a frigment of bone-an unusual sequel to communited tracture of the rusal bones B S CRIN J Larvingol & Otol , 1933, xlvm, 521

Roentsen diagnosis of primary pulmonary careinoma 1 KATZAAN and G KUZMINKO Vestn Rentsenol,

1932, X, 213

Primary carcinoma of the lung, bronchoscopic observations E \ Loopir \nn Otol, Rhinol & Laryngol,

1933, tlu, 1104

Cancer of the apex of the lung with associated tuberculous lesions, the Dejerine Klumpke syndrome, and vertebral metastasis R PARDAL, R C ITERAPI, and V IT012 Semana med, 1933, xl, 1409 [310]

Bronchogenic carcinoma, vith particular reference to removal of the middle lobe W Geistholvel 1932

Kiel, Discrtation.

Pneumonectomy, a preliminary report of the operative technique in two successful cases W I Rilvhoff, JP

Bull Johns Hopl ins Hosp, Balt., 1933, hii, 300 Cytological study of pleural bloods P Merkel, R WAITZ, and J KABANER Presse med, Par, 1933, No 92, 1828

The efficient treatment of purulent pleurisy Coqui-LET Arch med chir de l'ippar respir, 1933, viii, 259

[311] The treatment of pleuril empyema A Rultz Klin Wchnschr, 1933, 11, 1111 [312]

Cautery division of pleural adhesions Zentralbl f Chir, 1933, p 1966 SCIII ICITER

### Heart and Pericardium

The treatment of rheumatic cicatricial inflammation of the pericardium H W Pressler Muchchen med Wchnschr, 1933, 11, 1247

#### Csophagus and Mediastinum

Congenital malformation of the ecsophagus, report of a case C J IMPERATORI Ann Otol, Rhinol & Laryngol, 1933, Alu, 1231

Congenital anomalies of the esophagus, with special reference to the congenitally short asophagus, with a

portion of stomich above the disphrism L H CLERI ind W F Mixers Ann Otol, Rhinol & Liryngol, 1033, vlu, 1055

Removal of a foreign body from the acsophagus. I

Dia - Irdian M. Gaz , 1933, fxviii, 691

Presentation of case of a sophageal diverticulum. J C Blek Ann Otol, Rhinol & Firyngol, 1933, Alu 1227 Pricheo asophage il fistula, probably congenital, in a woman fifty eight years of ige R McKinsta Otol, Rhinol & Laryngol, 1935, xlu, 1257

I case of consental atresia of the upper end of the a sophious, with tracheo a sophigeal fistuli. G. S. Ritt-

THE Radiology, 1933, XXI, 587

Involvement of the asophagus in scute and in chronic infection H P Mosing Arch Otolaryngol, 1933, xviii,

Carcinoma of the asophiqus engrafted upon a lye stricture of twent, six years' duration M C Myfrson Ann Otol, Rhinol & I iryngol 1933, An, 1221

Licision of the thoricic asophigus for circinoma, with the construction of an extra thoracic gullet. G. G. Furnik Lancet, 1933, cexxx, 1315

The significance of meditatinal changes during and following artific il picumothorix. Del Barrio Mokeso Arch de med, cirus y especial, 1933, xiv, 1358

Mediastinal hernia and lipiodol, topographic aspects Prevost, Darbots, Herkios, Livieavios, and Briscourt Arch med chir de l'appar respir, 1933, vin [315] ړن,

A dermoid cyst in the anterior mediastinum Bencoli v Rev med quirurg de patol femenina, 1933,

#### Miscell incous

Thoracoscopy and thoracocauters R DIERICHS Tuberculose, 1935, xm, 134

A case of ectopia ventriculi thoracalis V VAIII Orvosi hetil, 1953, p 714.

Eventrition of the left half of the diaphragm and dextrocardin. P Costesco Bull et mem Soc nat de chir, 1933, lix, 1342

Consental diaphrigmatic hernix G Bignami Radiol med, 1933, xx, 1351

Diaphragmatic hernia of the stomach and colon, recurrent pulmon iry symptoms, encysted purulent pleurisy, obstruction of the terminal colon E SFRGLNT, R Kou-RILSKY, and P ROBERT Arch med chir de l'appar

respir, 1933, viii, 353 [315] Traumatic chylothorav A Mouchet Presse med,

P 11, 1933, xli, 1950

Inflammatory pseudotumor of the thorax due to diaphragmatic pleurisy V D Montesinos Med Ibera, 1933, Vvii, 642
The thoracic lipomata G J Heuer Ann Surg, 1933

[316] Yevill, Soi

Advances in thoracic surgery lungs, pleura, heart, pericardium, and diaphragm A Ruetz Zentralbl f Chir, 1933, p 2072 [316]

## SURGERY OF THE ABDOMEN

#### Abdominal Wall and Peritoneum

Prolapse of the abdominal contents through a stab wound I E Revelle Lancet, 1933, ccxxv, 1316 The treatment of laparotomy incisions K ROBERTS

and W W JOHNSON Am J Surg, 1933, XXII, 461

I emoral hernia G P Coopernail Am J Surg, 1933, TLII, 458

Operations for inguinal hernix L Druever Zentralbl f Chir, 1933, p 2115

The ambulant treatment of hernia A T BRATRUD J Lancet, 1933, liu, 673

Operat treatm at f la ge abil minal bernia. 4 18 MEYER Zentrall I Chir 931 p 2084 Experience a with the Base in operation are modified by urschir hall the six brefs folia. Chir 1933 have Kuschi

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#### Gastro Intestinal Tract

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W it 1933 p 1174
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An unu ust case f cong nital hypert oph palon
stenosis. L S C Rocue J R y Army M C op Lond [319] The pe att treatm nt f g st optosis nd some r

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Gastro intestinal amiebias an suigery G Fix vocutaro AMANTA Arch stal of the 1935 EEE 85 [319]
A case of gastric yph his amul ting carcinoma 1 the
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The aguacance i the pyl rus a the developm at i postoperati e peptic alce L Zurschaffer and L. Becker Deutsch Zische i Chir 1933 crsli, 30

The facto of spasm in the t logy of peptic ule rate n M E STEINBERG West to J Su b Obst & Gynec 1933 xlı 663

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Surcoma of the stomach O I I Auson Surg Clin North 1m 1935, viii, 1429

Lymphosarcoma of the stomach R D FORBES Surg

Chn. North 1m, 1933, viii, 1501

Unusual occurrence in a gastrostomy & R Whitrow

Lancet, 1933, ccxxv, 1316

Degastro enterostomy under infiltration anaesthesia V PSENICNIFOV Sborn chir klin Karan med Inst , 1932, p 76 The diagnosis of acute intestinal obstruction 1 G

ORR J Missouri State M Ass., 1933, xxx, 467

Acute intestinal obstruction | Centh installment, M A [319] McIVER Am J Surg , 1933, XXI, 149 Acute intestinal obstruction Lleventh installment M

[320] 1 McIver. Am J Surg., 1933, xxi, 373 Acute intestinal obstruction Conclusion M A Mc-[320] IVER. Am J Surg, 1933, XXII, 579

Intestinal obstruction following operations on the lower part of the abdomen A ASPINILL Med J Australia,

1933, 11, 713

Postoperative intestinal obstruction in the lower part of the abdomen H H SCHLINA Med J Australia, 1933,

Absorption in intestinal obstruction R R Best, L A NEWTON, and R MEIDINGER Arch Surg, 1933, TXVII, [320] 10\$1

The treatment of acute intestinal obstruction by suction with the duodenal tube O H WINGENSTEEN and J R PAINE J Am M Ass., 1933, C1, 1532 [321] A case of stercoral typhlitis J PERVES Bull et mém

Soc nat de chir, 1933, lix, 1351

Poly tropous enteronitis (acute infectious gastro-enteritis, 

Tuberculous enterocolitis B GOLDBERG Med rev

mexicana, 1933, viii, 445 Ulcerative intestinal tuberculosis A E Soudan J

Indiana State M Ass, 1933, xxvi, 599

Surgical treatment for perforation of the intestine due to typhoid fever E B RIBLIRO Rev Sud 1m de mid et de chir, 1933, iv, 663

Multiple fæcil fistulæ. O F Liuson Surg Clin North Am, 1933, x111, 1423

Two rare enterovesical fistulæ J BEDRNA, A SINL, and Simo : Ztschr f urol Chir, 1933, xxxvii, 361 Non-specific granulomata of the intestines L Ginz-

BURG and G D OPPENHEIMER Ann Surg , 1933, xcviu,

A method of resection with exclusion Burkle-de la CAMP Zentralbl f Chir, 1933, p 1480

Injuries of the small bowel, subcutaneous rupture, gunshot wounds, and stab wound E Trojan Arch f klin. Chir, 1933, clxxv, 652

Observations upon multiple intramesenteric diverticula of the small intestine R W BUTLER Brit J Surg 1933, XXI, 329 13221

Intussusception H Koster Am J Surg, 1933, xii,

Anomaly of torsion of the small bowel, hypoplasia of the pancreas A GUTIERREZ Soc de cirug de Buenos Aires,

1933, XVII, 1158 Acetycholine in paralytic ileus A L ABEL Lancet,

1933, CCXXV, 1247

The use of acetylcholine in paralytic ileus K HERITAGE

Lancet, 1933, ccxxv, 1258

Three cases of operation for biliary ileus, with recovery LEFORT Bull et mem Soc d chirurgiens de Par, 1933,

Enterostomy in ilcus R Colp Ann Surg, 1933, xcviii,

1063

Hæmorrhagic tumor of the small bowel, schwannoma LEMONNIER and PEYCHTON Bull et mem Soc nat de chir, 1933, ht, 1318

Circinonia of the small intestines 5 1 GOLDBELG

Med Soc New Jersey, 1933, xxx, \$28 Ilcocolopiasty J Que. w Bull et mem Soc nut de chir, 1933, lix, 1341

Diverticulum of the duodenum D CROMF Brit M

J , 19,3, 11, 1021

Diverticulum of the duodenum C E SILTER Brit M J, 1933, 11, 1021

Catarrhal icterus, the presence of amorba in the duodenal contents. A CASAUDO, J C DERQUI, and A LETIMENDI Semana med, 1933, vl. 1332

Diagnosis of multiple duodenal ulcer M Buissos

Radiol m.d., 1933, xx, 1370
Congenital duodenal ulcer with perioration E Moods and W M Howard J Missouri State M Ass, 1933, xxx,

Duodenal ulcer with pylorospasm and an increase in the blood urea H KJEFGLARD Acta med Scand, 1953, lxxx, 480

The treatment or inoperable duodenal ulcer E MEL-

CHIOR Zentralbl f Chir, 1933, p 2002

The operative treatment of non resectable ulcer of the duodenum H FLOEPCLE Zentralbl f Chir, 1933, p

Miliary adenomatosis of the duodenum J Pivel and S M Milcou Presse med, Par, 1933, No 92, 1812

Primary malignant disease of the duodenum S A EGER Arch Surg , 1933, xxvii, 1087

The diverticula of the jujuno-ileum I spaser Brit Surg , 1933, XXI, 183 Extensive infarct of the ilcum following strangulated

inguinal hernia L P Costs and E BAZTERRICS Soc de cirug de Buenos Aires, 1933, tvii, 1104

Heocecal tuberculosis and the double contrast enema examination I Gershov Coney Am I Roentgenol. 1933, 122, 779

Meckel's diverticulum H Boci Zentralbl f Chir,

1933, P 1715 Intussusception due to an invaginated Meckel's diverticulum. H N HARKINS Ann Surg, 1933, veviii,

[326] Carcinoma of Meckel's diverticulum R Brown Surg Clin North Am, 1933, xiii, 1382

The action of cathartics on isolated dog's colon I Secretory activity II Motor activity L M Larson and J A Bargen Arch Surg, 1933, xxvu, 1120

Certain disorders of the colon H G Bristow J Missouri State M Ass., 1933, xxx, 476

Abnormal position of the large bowel E SZABÓ Orvosi hetil, 1933, p 732

Difficulties or interpretation of the roentgenographic examination of the iliac colon showing a restriction in dorsal decubitis which disappears in ventral decubitis JAYLE and P AIME Comptes rendus Soc franç de gynec, 1933, 111, 182

Congenital dilatation of the colon treated by division of the sympathetic cord H T ASHBY and D M SUTHER-

LAND Brit M J, 1933, 11, 1069

A case of megacolon, volvulus and reposition with secondary cholectomy Caraannopoulos Bull et mem Soc nat de chir, 1933, lix, 1361

The present status of idiopathic ulcerative colitis, with special reference to etiology M Paulson J Am M Ass , 1933, c1, 1687

Polyposis of the colon, report of a case with failure of roentgen therapy L R CHANDLER and R. R NEWELL Surg Clin North Am , 1933, xiii, 1297

Tumors of the colon and ectum A T Bazry A rth w st Med 1933 xxxx 5 3
Walgnancy (th co n C L Smart h w England I Med 933 ccix 1210
Early d nosis of ca cinoma of the la g inte tine I

T PRIESTLEY and I & BARGEN And I Surg 933 Carcinoma of the colon f on a roentg nolog cal stand

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talbl f Che 1933 p 2085 Acute p rior ton of th cocum Goesen. Zentr ibl

f Chir 1933 p 2149
Is the vermif rm appendix eve congenitally ab ent? J F BALDWIN Internat J Med & Sug 1923 xlvs

576
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Laur at n i the ctum tte contu no i th bdo m n. L Burner Surg Ch North Am 931 u 209 Prolapse I the ectum F W Ranger nd J T Pr 531 12 205 [328] LE1 Ann Su g 933 rc 4 1030

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BOSOLGH Ann Surg 1933 C III 1939 [32] The spectron tree timent of internal harm rish die E I Fagan Surg Clin North Am 1933 x II 1337

An interesting p oblem in the after ca of hamorr bondect mies T BEDVENIAN and S CAIN JR. J South

Caroli a M As 1933 XXIX 28 Cancer of the n 5 R BENSAUDE A CAIN P OURY Cancer of the n s n nervous ... ... and i Poinces Pr me med Par 1933 \ 9 1837

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Chroni enc phabiti ssociated with gall bladder ofec to B R SALEMA Ohio State M I 933 XXX 57

The formation of gall stones following cholecystitis of appendiceal origin E Polichetti Rassegna internaz di clin e terap, 1933, xiv, 982

The injection of lipiodol into biliary fistulæ H J

Shelley Med rev mevicana, 1933, viv, 541
False biliary calculi in the stool M Chiray and J

ROBERT Presse med , Par , 1933, No 92, 1846

Gas gangrene of the gall bladder F E Koch Zentralbl

f Chir, 1933, p 2060

Cancer of the umbilious secondary to carcinoma of the gall bladder R L MASCIOTTRA and M A ETCHEVERRY Rev med quirúrg de patol femenina, 1933, 1, 542

Dietary and medical management of diseases of the gall bladder, newer points of view J R Twiss and C H GREENE J Am M Ass, 1933, CI, 1841

Cholecystocholedochostomy and some remarks on the causes of recurring symptoms, the function of the gall bladder, and studies on their relation to gall-bladder operations B O Pribram Zentralbl f Chir, 1933, p 2003

Mortality following gall-bladder surgery J P Shearer

Ann Surg, 1933, xcvm, 1114

Two cases of choledochotomy for biliary angiocholitis due to compression obstruction of the ductus choledochus Peugniez Bull et mem Soc d chirurgiens de Par, 1933, XXV, 573

Spasm of the sphincter of Oddi and choledochous fistula R Soupault Bull et mêm Soc nat de chir, 1933, lix,

What is the best incision for operations on the biliary ducts W SCHAACK Vestn Rentgenol, 1932, x, 546

Hypoplasia of the pancreas Brachetto-Brián Soc

de cirug de Buenos Aires, 1933, xvii, 1174

Pancreatic secretion in the bile passages, its pathogenetic significance in the development of acute pancreatic diseases H L POPPER Arch f klin Chir, 1933, clxxv, 660 [331]

Acute diseases of the pancreas in relation to operations on the stomach and duodenum R EUREN Acta chirurg Scand , 1933, lxxiii, 323 [332]

Cdematous pancreatitis BACHY Bull et mem Soc nat de chir, 1933, lix, 1365

Massive necrosis of the pancreas accompanying acute pancreatitis due to bacillus typhosus E HOLMAN Surg Chn North Am, 1933, viii, 1395

Paravertebral injection in pancreatitis H L POPPER

Zentralbl f Chir, 1933, p 2050
Pancreatic lithiasis R A GUTMANN Bull et mem Soc med d hop de Par, 1933, thx, 1268

Wandering spleen R BROWN Surg Clin North Am, 1933, 111, 1287

Torsion and displacement of the spleen taken for an ovarian cyst Petriois Bull et mem Soc nat de chir, 1933, lix, 1328

Stenosis of the splenic vein F Szendey Orvosi hetil,

1933, p 689

Tuberculous purpura, atypical hæmorrhagic purpura associated with nodular tuberculosis of the spleen A OMODEI-ZORINI Policlin, Rome, 1933, vl, sez med 790 Gaucher type of splenomegaly P Kranz Vischr

Zahnheilk , 1933, xlix, 317

Chronic splenomegaly transformed at the end of ten years into myelogenous leukæmia P Émile-Weil Bull et mem Soc med d hop de Par, 1933, xlix, 1264

A large, non parasitic, unilocular cyst of the spleen F P WEBER and A SCHLUETER Arch f path Anat, 1933, cexe, 71

Splenectomy for splenic cyst F C Fraser Indian M

Gaz , 1933, lxviii, 571

Emergency splenectomy E P TORTELLA and V I SENANTE Rev de cirug de Barcelona, 1933, 111, 23

#### Miscellaneous

Situs transversus viscerum J M Troutt Ann Surg,

1933, YCVIII, 1109

The aseptic peritoneal cavity—a misnomer K ROBERTS, W W JOHNSON, and H S BRUCKNER Surg, Gynec & Obst , 1933, lv11, 752

Abdominal emergencies dealing especially with abdominal injuries G G Davis Internat J Med & Surg [332] 1933, xlv1, 525

Subcutaneous injuries of the abdomen D Lewis and I R TRIMBLE Ann Surg, 1933, xcviii, 685 Foreign body removed from the abdomen after eighteen years R D Forbes Surg Chn North Am, 1933, XIII,

Hernia into the paraduodenal fossa with a large biliary calculus, report of a case I A ARNOLD Kentucky M

J, 1933, xxx1, 561
Subphrenic abscess A Ochsner and A M Graves Ann Surg , 1933, \cviii, 961

Differential diagnosis of massive tumors of the abdomen W Schellenberg Ztschr f Geburtsh u Gynaek, 1933, cv1, 11

Abdominal ganglioneuromata P Wilmoth, I Bert-RAND, and J PATEL J de chir, 1933, xlu, 689 1335

### GYNECOLOGY

#### Uterus

A new contrast medium for use in uterosalpingography, preliminary report. T NEUSTAEDTER, D E EHRLICH, J C DuBois, and G R BLALOCK Radiology, 1933, XII, 568

Clinical and diagnostic value of metrosalpingography and uterosalpingography Z Saveleva and W Malinov-

Skaja Ginek , 1933, 111, 39

Artificial growth of the human uterus, roentgenological control C CLAUBERG Zentralbl f Gynaek, 1933, p

Studies of the movements of the uterus T N MORGAN J Obst & Gynæc Brit Emp, 1933, 1, 1196 A case of uterus didelphus with double vagina P DUHAIL Bull et mem Soc d chirurgiens de Par, 1933, XXV, 610

Justification of prophylactic plastic operations for uterus dupler F RHÉMANN Orvosi hetil, 1933, p 636 Inversion of the uterus W BETHUNE Canadian M Ass J , 1933, xxx, 631

The treatment of inoperable prolapse A L SCHERBAL Zentralbl f Gynaek, 1933, p 1940

Operative treatment of prolapse of the female genitalia T Andrianakos Mschr ung Mediziner H, 1932, 1-11,

An evaluation of the Bissell operation for uterine prolapse, a follow up study B H Gori Surg, Gynec & Obst , 1933, lv11, 763

The surgical treatment of cystocele and prolapse of the uterus, with an analysis of 113 cases R L WITKINS Surg Chn North Am, 1933, viii, 1501 [336] Anterior fixation of the uterus by the method of Hoehne

R G HERRERA Rev med Lat.-Am, 1933, xix, 21

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The pathology of ovarian tumors W Sixw J Obst [338] & Gynac Brit. Lmp , 1933, vl, 1125

fumors of the ovary with hormonal function R M ng Ho? Rev med quirurg de patol femenina, 1933, 1,

A case of granulosa-cell tumor in both ovaries with metastises in the corpus and cervix uteri 1 J M HOLMER J Obst & Gynac, Brit Emp, 1933, vl, 1207 Brenner's tumors and disgerminoma of the ovary H Berringer I rankfurt Lischr f Path , 1933, Nv, 238

#### External Genitalia

Concenital absence of the vagina, Baldwin-Mori repair, recovery N HORTOLOMEI, I JONESCU MILTIADE, and T

BURCHFLF Gyne stobst, 1933, 1x, 25 Injuries to the vigina T HINRICHS Monatsschr f

Geburtsh u Gynick, 1933, xerv, 240 Rebellious vaginismus treated by irradiation Gisquer Rev fring de gineo et d'obst, 1933, exim,

The treatment of leucorrhoan with grape sugar. I KOTTLORS Therap d Gegenw, 1953, land, 153

Vulvovacimitis due to disentery Z Levell Oriosi hetil, 1933, p. 760

I call of dermoid cyst of the vigina I Somero and

\ SPIRE\ Gynec st obst, 1933, 18, 14 Colpectomy H L Simos J \mathbb{M} \ \mathbb{M} \ \mathbb{Ass}, 1933 \ c1 [338]

I case of vulvar anus V PLITIALINU and G NEGRISCU Gynee stobst, 1935 17, 19

Chronic hemorrhigic vulvitis L KLAER Dermit Wehnschr , 1933, n, 1∞-

Carcinoma of Birtholm's gland, a report of two cases II STRACAS J Am M 185, 1953, CI 2110

The treatment of disturbances in the menstrual cycle with sex hormones D Gostivirovic and G O Kralmer Endokrinol., 1933, viii, 16

The treatment of amenorrhan E Schleyer Med

Welt, 1933, p 997

Some aspects of the menopause B WHITHOUSE Canadian M Ass J, 1933, xxix, 585

The treatment of disturbances occurring in the artificial menopause L BROUMA, I IN CIUWFNBERGHE, P LAMARQUE, G. MASSABUAU, and A. GUIBAL Gynec et obst., 1933, xxviii, 182

Menopausal menorrhagia and its treatment by radium A Bromo J Obst & Gynrec Brit Emp, 1933, vl. 1224

The sedimentation test and its practical value in synecol

ogy H Voilmar Med Welt, 1933, p 1131
Rountgen diagnosis in obstetrics and gynecology
H Heiller Med Klin, 1933, 11, 1163

Impuling injuries in gynecology F Most Monateschr f Geburtsh u Gyneck, 1933, very, 357 Trauma and compensation in genecology and obstetrics

J R MILLER Am J Obst & Gynec, 195, xxxx, 850 The diagnosis of the presence of a foreign body in the pelvis G Wakschauer Lentralb! 1 Gynick,

1933, p 1813

Missive genital and rectal prolapse in a voman of cighty years. J. Dr. Pillipi. Soc de cirus, de Buenos lires 1933, TVII, 1085

Jubil block and other idneral lesions from the ispect of sterlity S C LITZPATPUR Med J Australia, 193, 11, 509

Neurogenic imbalance of the pelvic organs. W. D. ABBOTT and R. O. PEAFE. Am. J. Surg., 1953, XXII, 4-0

The endonasil reflex therapy in genecological pain M CHIGHAT Res franç de gynec et d'obst, 1955, XXVIII 500

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5 its cal treatment of hamorrhage due to insertion of the placents in the inferior sorient. Precor and Rein Gyn.c. et obst 1955, 771111, 417

Separation of the placenta during presoning P C T as Disk Horst Vederl Findschr v Geneesk, 1935. VAN DER HOEGE

p -900

Rend disease ath pre ions separation of the placenta J Battsweith Orio theil, 1955 P 553, 501 Prolapse of a normally located placenta Guck, 193, No 3 55

The genesis in I nomenclature for suidle placenta. I. B. Ruspek. Atschrif Gebartch u Genack, 1055 CV, 937 Placenta prava I S KEL1066 New England J Med

1933, CUX, 1.01

Placenta pravia centralis u d'accreta. D. A. Roris Bol Sic de obst. y since de Buenos Ares, 1033, Au, 053 The treatment of placents previs during the past few Rev fring de junce et d'obst, years R Girardi 1933, XXVIII, 895

Attempts at improving the treatn ent of place ita previe

J. I rios lest. Orvoskepies, 1932, xxii, 693 Biological v.e., of the trun fetus. II. Thins in Japan

G Oku Jap J Obst & Gynce, 1933, W1, 157 Death of the fetus due to excense twisting in distrangu lation of the cord at its umbilical end I I VILVE at 0 1 id E BAYONA Bol Soc de obst y sinec, de Buenos Aires, 1933, x 1, 653

Spontaneous expulsion through the abdominal wall of the micerated tetus R VV. Nitsee and V Corate

Bruxelles med , 1933, xiv, 106

The transmission of chloroform, morphine, and chloro hydrate from mother to child through the blood and mill K IF ISECTIFI and I LADIANSKIJ / Ikuš, 1935, zhv. 42

Ammography with sk odan injections I I Abatic and M L Di is Am J Obst & Gynec, 1933, 1711, 581

The Flores' method of A ray pelvimetry and cepha lometry, a discussion of the advantages and case reports J M TRIMITT Rad ology, 1933, vvi. 373 Deep trans erse position of the head W Sirvy Pric-

titioner, 1933, exxxi, 685

I xstrophy of the bladder associated with pregnincy and labor J B Danso J Obst & Gynec, Brit. Lmp, 1935, 11, 1211

A case of complete closure of the vagina during pregnan-S Soutered skt Ginel polska, 1933, vii, 289

Spontaneous rupture of the uterus with a seven months' presnancy 1 1 Schlood Am J Obst & Gynee, 1933, 221, 904

Spontaneous intraperitoneal hemorrhage of unknown origin complicating pregnancy L D'LRRICO Ne. Ing-

land J Med , 1933, ccix, 1331

The significance of vascular disturbances in advanced pregnancy K Magyary Orvosi hetil, 1933, p 611

Five hundred women with serious heart diseases followed through pregnancy and delivery F B Cur and B L HAMILTON Am J Obst & Gynce, 1033, xxv1, 824
Pregnancy and rupture of the aorta H Upbermuth

Zentralbl f Gynack, 1933, p 1633

The hyperventilation tetany during gestation and a contribution on the recurrent tetany of pregnancy L KLAF TIN Zentralbl f Gynack, 1933, p 2178 [344] Gestational polyneuritis L D Plass and W F Man-

GERT J Am M Ass, 1933, c1, 2020

Three cases of pernecious vomiting of pregnancy H PIGEAUD and P MICHELON Rev franc de gynec et d'obst , 1933, xxviii, 849

Toxamus of pregnancy, a critical review of the recent literature D HURWILL New England J Med, 1933, CC1X, 1281

Let il mortality in the toxesmas of pregnancy PLEKHAM J Am M Ass, 1913, CI, 1008

The early signs of pre-celamptic toxemily with special reference to the order of their appearance and their interrelition I J Brows: J Obst & Gymec, Brit Lmp, 10.3, tl, 1160

I champara 1 J Ginson Med J Australia, 1033, 11, 3451 211

The season dimedence of celimpera in Honglong, R. L. Forr. NHAM Brit M J, 1933, 11, 1007

Experimental study of the scrum in eclimpsia. L Unisionar Arch directed agrice, 1953, al 600

Tuberculous meninatus and presnancy N.P. Costs Bol Soc de obst 3 gince de Buenos Aires, 1911, xii, 651 I sperime it il study of the effects of thyroidectomy on busines. K Sojiki Jip J Obst & Cynic, 1933,

X11 13, the territized fibrous osteries with parathyroid tumor in pregnancy M Boschitti Arch dissect eginec, 1933,

tl, 656 Consent dlicinolytic icterus and presnincy | F | Ixterreffo Bol Soc de obst 3 ginee de buenos Aires, 1933, 311, 607

Unnity tractinfections is sociated with pregnancy, their fite in succeeding pregnancies. I. G. Chabtlel and G. C. PEATHER J Im M 150, 1935, CI, 1928

Circinoma of the breast in pregnancy, indications for operative interruption of pregnancy and sterilization

W Wich-ulth Chirurs, 1933, v, 585

Urethral circinoma in the seventh month of pregnancy C MULLITE /tschr f Geburtsh u Gynack, 1933, cv,

The treatment of sterdity and habitual abortion with white berm and white berm oil (Vitamin I) P Voor-MOLITE Hop Id. 1935, p 621

Indications for artificial abortion II Marries Deutsche

med Wchnschr, 1933, 11, 1160

The mortality tollowing artificial abortion A Man žier 111, Ginek, 1933, No 3, 50

Poisoning from soft sofp used in attempts at abortion and in animal experiments. G. Hashinoise and G. SCHAITINBEAND /tschr f Geburtah u Gynael , 1933, cv, 393

I rare injury of the bowel due to a curette in an attempt at abortion A HIIDEBRANDT Zentralbl f Chir, 1933,

p 1646

Uterine perforition in an attempt at abortion, intrauterine foreign body, hysterectomy, recovery G Buzoia-Nu and \ Distriu Gynec st obst , 1933, 1x, 15

I case of brain embolus with a fatal outcome as the sequela of criminal abortion K Fuge Monatsschr f Geburtsh u Gynack, 1933, xciv, 273

Experiences with 35,265 abortions J Kiss

hetil, 1933, p 751

### Labor and Its Complications

The practical importance of counting the labor pains in the management of the labor E FREY Klin Wchnschr 1933, 11, 1133 [345]

Labor in old primipar c G GRONLWOLD

Dissertation

The illeviation of pain in 560 cases of spontaneous labor DIMEL McIlroy and H E Rodwin J Obst & Gynac Brit Emp , 1933, xl, 1175 [345]

The effect on the infant of morphine administered in labor E Shure and M E Davis Surg, Gynec & Obst., 1933, lv11, 727

The use of pituitary extract in obstetrics C R ALDEN New England J Med, 1933, ccix, 1211

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Chlorothymol as an antiseptic in obstetrics A C Beck

Im J Obst & Gynec, 1933, XXVI, 885

External hysterographic studies of the effect of certain analgesics and anæsthetics upon the parturient human uterus S M Dodek Anes & Inal, 1933, VII, 225

Maternal and infant mortality in 13,350 deliveries from 1922 to 1932 in an outdoor service H C WILLIAMSON

Am J Obst. & Gynec, 1933, vvvi, 911

Statistical investigation on the time interval between marriage and the first parturition and those of successive two parturitions T Kurita Jap J Obst & Gynec, 1933, 331<u>,</u> 466

The effect of organs from gravid animals on morphogenc-SIS S SCAGLIONL Arch di ostet e ginec, 1933, vl, 665 Early detection of chorionepithelioma by means of the

anterior pituitary hormone tests, with report of a case M A CASTALIO Am J Obst & Gynec, 1933, XXVI, 893

Differential diagnosis of malignant chorionepithelioma I CZYZAK Ginek polska, 1933, XII, 229

Malignant chorioncpithelioma and studies on the constitution of the genitalia W FAJRAJZEN Ginek polska, 1933, x11, 285

Roentgen therapy for malignant chorionepithelioma H WINTZ Vestn Rentgenol, 1932, x, 163

Hydatidiform mole P L Borrás Rev med d Rosario,

1933, 33111, 840 Proliferation mactivity and hormonal activity in hyda tidiform mole A PEKALTA RIMOS and M VALENTINUZI Bol Soc de obst y ginec de Buenos Aires, 1933, XII, 192 [348]

Breus mole in a closed rudimentary uterine horn. Sr CIKOWSKI Ginck polska, 1933, VII, 263

I case of vesicular mole with cystic degeneration of the ovary K ANTONS Hosp-Fid, 1933, p 626

## GENITO-URINARY SURGERY

### Adrenal, Kidney, and Ureter

Excretion urography, with particular reference to a newly developed compound, sodium ortho-iodohippurate M

Swick J Am M 1ss, 1933, ci, 1053

The practical application of excretory (intravenous) urography W Γ Braisch J 1m M 1ss, 1933, ci, [349]

Intravenous urography H REBOUL Pressomed, Par,

1933, No 92, 1858 Tumors of the pelvis PASCUAL, VAN DEN BRANDEN, and

Joly J d'urol med et chir, 1933, vxxvi, 391

Further studies on a glycerin extract of adrenal cortex potent by mouth H FREEMEN, F E LINDER, and R G HOSKINS Endocrinology, 1933, XVII, 677
A case of Addison's disease H S STANUS Brit M J,

1933, 11, 1112

Addison's disease, report of two cases treated with suprarenal cortical extract (eschatin) A E Greek Texas State J M , 1933, xx1x, 483

Surgical operations in Addison's disease C H GREENE, W WALTERS, and L G ROWNTREE Ann Surg , 1933, xcvui, 1013

Transplantation of suprarenal glands in Addison's dis-

ease Г D'ABREU Lancet, 1933, CCXV, 1478
Hypernephric tumors A Lippens Bruxelles-med,

1933, viv, 168
Fibrosarcoma of the suprarenal gland B S CRAN

Brit M J, 1933, 11, 1018

Exclusion of renal function by roentgen irradiation E

NAVRATIL Strahlentherapie, 1933, Avii, 348

The influence of X-ray irradiation upon the uropoietic system IV A study on the kidney with the formation of ureterofistula (histological change of the kidney after formation of a utero ureteral fistula) S TAKITA Jap J Obst. & Gynec, 1933, xv1, 476

Renal dystopia A N Afanassjew Ztschr f urol

Chir, 1933, XXVII, 143
A case of horseshoe kidney G Jasienski J d'urol

méd et chir, 1933, xxxvi, 353

Pelvic leukoplakia in a horseshoe kidney L R REY-NOLDS and N J HOWARD J Urol, 1933, XX, 653 The surgical treatment of floating kidney J MINDER

Ztschr f Ürol , 1933, xxv11, 376

Silent hydronephrosis

A B HEPLER Surg Clin North Am , 1933, xm, 1383

Rupture of hydronephrosis H G Skarby Acta chirurg Scand , 1933, lxxm, 361 [349]

Pyelitis in infancy and childhood H W McKAY South M & S, 1933, xcv, 651

Hæmatogenous renal infections and reno ureteral denervation G Bragagnolo Arch ital dichir, 1933, XXXV, I [349]

Actinomycosis of the kidney \(\Gamma\) S KIMBALL and \(\hat{R}\) B HAINING California & West Med , 1933, MAIN, 370

Roentgenological findings in metastatic staphylococcal infections of the kidney and perinephrium C H HEA-COCK South M J, 1933, XXVI, 1051

The rôle of the ureter in renal tuberculosis R V Div Am J Surg , 1933, XXII, 542

Carbuncle of the kidney W N Taylor Am J Surg, 1933, XXII, 550

Solitary cyst of the kidney R D FORBES Surg Clin

North Am., 1933, Mil, 1357
Pregnancy with bilateral congenital cystic kidneys J L

BURNS Canadian M Ass J, 1933, XXX, 645
Polycystic kidney, a case report L M M XSON Virginia M Month, 1933, lx, 552

Heredity and polycystic disease of the kidneys C H

REISON Canadian M Ass J, 1933, XXX, 612
A hydatid cyst of the kidney L Michon J d'urol med et chir , 1933, xxxvi, 363

Perinciphritic abscess, three clinical cases A J Scholl

Surg Clin North 1m, 1933, un, 1457

An unusual perinephritic abscess with a pyelonephritic shrunken kidney O'A Schwarz Ztschr f urol Chir, 1933, xxxv11, 53

An unusual extensive perirenal hamatoma associated with hydronephrosis due to carcinoma of the urinary bladder M Pratfs Ztschr f urol Chir, 1933, XXXVII, 325 Epithelioma primarý in the renal pelvis H Cabot and

R B ALLEN Lancet, 1933, ccxxv, 1301

Mahgnant tumor and solitary cyst of the kidney in children W A Taylor Surg Clin North Am, 1933,

Cancer of the Lidney T MARSAN J d'urol med et chir, 1933, xxxvi, 387

A peculiar tumor of the kidney (trabeculous vanthocys toma with sarcomatous degenerative metastases) NATHAN Ztschr f urol Chir, 1933, xxxvii, 337

Surgery of the kidney and ureter in infants and children M F CAMPBELL J Med Soc New Jersey, 1933, XX, 845 A new possibility in renal surgery The "connections" of the kidney to the omentum, the spleen, and the splenoepiploic vessels. An experimental study R Redi Sperimentale, 1933, lxxxvii, 273 [349]



Is serum therapy possible and successful in osteomyelitis?

H Gross Arch f klin Chir, 1933, clxxv, 454

The treatment of ostcomychtis by Baer's method R VARA LOPEZ and K THORBECK Fortschr d Therap,

A case of Paget's disease of bone 7 FRACASSI, R PUIC, and T Ocana Rev med d Rosario, 1933, xxiii, 869

Advanced osseous syphilis in a four months-old infant

F E TRICY Radiology, 1933, XVI, 584

Multiple syphilitic osteopathy in the newborn S I Bettinotti Rev Asoc med argent, 1933, xlvu, 3263 Osteitis deformans of Paget and osteitis fibrosa of von Recklinghausen L Michaelis Ergebn d Chir u Orthop, 1933, XXI, 381
Bone tumors T Verebely Orvoskepzes, 1933, XXIII,

Bone tumors L Puhr Orvoskepzes, 1933, xxiii, 564 Systematic enchondromatosis of the skeleton

HEIDBRINCK 1932 Kiel, Dissertation

A case of angio endothelioma of bone with hæmothorax due to pleural metastases W P WARNER and S C SIN-GLETON Canadian M Ass J, 1933, XXIV, 610

Multiple my eloma complicated by intestinal obstruction due to amyloid infiltration of the small intestine O S

RANDALL Am J Cancer, 1933, vix, 838

The differentiation of epulis, osteodystrophy, and giantcell sarcoma C RENNER Arch f klin Chir, 1933, clxxv, 388

Multiple bone tumors with local sarcomatous degeneration T Canigiani Beitr z klin Chir, 1933, clviii, 49

Studies in hone sarcoma I Malignant osteoblastomata as evidence for the existence of true osteoblasts A Bruv-SCHWIG and P H. HIRMON Surg, Gynec & Obst, 1933, lvu, 711

Chondrodystrophy S Odišaria Vestn Rentgenol,

1932, x, 331
The reaction of joint tissue to experimental changes in the tissue reaction S BRAMBILLA Sperimentale, 1933, lxxxvii, 417

Hæmophilial arthropathy F L CHRISTMANN and J J

Moreda Rev Asoc med argent, 1933, xlvii, 3297 Modern conception of chronic arthritis M J SHAPIRO

Minnesota Med , 1933, xvi, 719

Experimental chronic arthritis (synovitis) produced by intra-articular injections of bacterial filtrates and other foreign proteins A Brunschwig and L D Henry Arch Surg , 1933, xxv11, 1065

The blood sedimentation time in joint diseases H

HERRMANN Med Klin, 1933, 11, 1151, 1182

The Schilling differential in infections and in hypertrophic (degenerative) arthritis C LeR. Steinberg J Missouri State M Ass, 1933, xxx, 485

Personal futile attempts to prove the infectious origin of chronic arthritis J A Key South M J, 1933, xxvi, 1059

The parathyroid glands and ankylosing polyarthritis J Riosalmo Med Ibera, 1933, xvii, 621

Arthritis, its dietary treatment W E GATEWOOD and

L W HUNT Northwest Med , 1933, XXXII, 511

Arthritis deformans and accidents Hohlbaum Chirurg,

1933, v, 451

The diagnosis of osteo articular tuberculosis by biopsy of the regional lymph nodes C E OTTOLENGHI Rev de ortop y traumatol, 1933, m, 1

Roentgentherapy for osteo articular tuberculosis PALTRINIERI Chir d organi di movimento, 1933, xviii, 289 Osteomatosis of joints R Kienboech Vestn Rentge-

nol, 1932, x, 96

Practical chemical tests for the study of muscular impotence W L DULIERE and J CORNET Bruxelles med, 1933, 717, 29

Dystrophia myotonica, a chinicopathological study M KESCHNER and C DAVISON Arch Neurol & Psychiat, 1933, XXX, 1259

Circumscript traumatic myositis ossificans in the Red army E LLIISEK Voenno-med Z, 1932, III, 129

Primary tuberculosis of striated muscle G Carossini Riforma med , 1933, xlix, 1650

The treatment of tendon injuries F Hesse Ergebn. d Chir u Orthop, 1933, XXVI, 174

Tendon suture N G GUNTSCHEFF Zentralbl f Chir, 1933, p 1647

The treatment of chronic rheumatism A P VERTIZ

Med rev mexicana, 1933, xiv, 506

Stiff, painful shoulders, exclusive of tuberculosis and other infections C B FOWLER J Am M Ass, 1933, Ci, 2106

Rapid bone regeneration following diaphysectomy of the clavicle A L D'ABREU Lancet, 1933, ccxxv, 1369

Localized multiple enchondroma in the left superior extremities M Duvoir and L Poller Bull et mem Soc méd d hop de Par, 1933, xlix, 1346

Osteochondritis dissecans of the elbow in compressed air workers P ROSTOCK Arch f orthop Chir, 1933, XXIII,

A case of tuberculous ostertis in the region of the elbow L A Weber Rev de ortop y traumatol, 1933, iu, 74. A case of congenital partial absence of the right ulna and

associated deformities S H Liu Chinese M J, 1933,

rlv11, 1052

Bone development of infants and young children in Puerto Rico A roentgenographic and clinical study, with special reference to rickets, osteoporosis, and transverse lines in the radius and ulna M M ELIOT and E B JACKSON Am J Dis Child, 1933, xlvi, 1237

Dupuytren's contracture, operative result after seven months J BRAINE Bull et mem Soc nat. de chir, 1933,

lix, 1339

Malacia of the scaphoid bone of the carpus, pathogenesis and treatment J H Oltramare Schweiz med Wchnschr , 1933, 11, 956

The arthritic hand M M RAY Proc Roy Soc Med,

Lond , 1933, xxvu, 193

Isolated dislocation of the extensor tendons of the hand A BANGERTER Schweiz med Wchnschr, 1933, 11, 645

Subcutaneous rupture of the long extensor tendon of the thumb, fascia lata graft, cure R SOUPAULT Bull. et mem Soc nat de chir, 1933, lix, 1387

A rare case of complete congenital deformity of the vertebral column without functional disturbance A D RADULESCU Rev Ortop si Chir infant, 1933, vii, 61 The prognosis of congenital scolosis H STERNBLEG

Arch f orthop Chir, 1933, xxxiii, 307 Kyphosis in infants and children J M Jorge and J

R Dietsch Semana méd, 1933, vl, 1477

Changes in the small intervertebral joints, a little recognized cause of pains in the back. M. LAGE. Muenchen med Wchnschr, 1933, 11, 1134

Low back pain, with special reference to the articular

facets, with the presentation of an appearance R K GHORMILY J Am M Ass, 1933, ci, 1773

Spondylohsthesis J Brailsford Bnt. J Radiol, 1933,

[354] Acute septic spondylitis due to infection of the umbilicus

J H G CARSTENS Monatsschr f Kindergeneesk, 1933, u, <u>53</u>8

Chronic arthritis of the vertebræ A RICHARD Presse med , Par , 1933, vli, 1753

Sacral pain due to injury of the sacro-iliac joint Old and new methods of study and treatment K BRAGARD Muenchen med Wchnschr, 1933, 11, 1240

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Double pulley traction in fractures of the shaft of the humerus, report of a case L BLUM J Am M Ass, 1933, cı, 1953

After-study of fractures of the neck of the humerus N

F GREGERSEN Hosp-Tid, 1933, p 769

Fracture of the trochlea with intra-articular displacement of the fragment, paralysis of the ulnar nerve VALLS Soc de cirug de Buenos Aires, 1933, xvii, 1078

Fractures in the lower one-third of both bones of the forearm in children, manipulative reduction D H LEVIN-

THAL Surg, Gynec & Obst, 1933, Ivii, 790
A marginal fracture of the inferior extremity of the radius M FITTE Soc de cirug de Buenos Aires, 1933, xvii, 1148 Anterior marginal fracture of the lower extremity of the radius R Egaña Soc de cirug de Buenos Aires, 1933,

XVII, 1174 The treatment of fractures of the carpal bones, late re-

sults W KUECHEL Muenchen med Wchnschr, 1933,

Roentgenological diagnosis of fractures of the scaphoid bone of the hand F SCHNEK Zentralbl f Chir, 1933, p

Dislocations of the cervical spine, their complications and treatment T P BROOKES Surg, Gynec & Obst,

1933, lvii, 772

The treatment of cervical spine dislocation C F
Eikenbary and J F LeCoco Surg Clin North Am,

1933, XIII, 1315

Fracture of the transverse processes of the vertebræ M J FITTE Soc de cirug de Buenos Aires, 1933, xvii, 1139 Double fracture of the vertebral column as an industrial accident, treatment, incapacity, indemnity A S SEIN Rev Asoc med argent, 1933, xlvn, 3174

Late results of paralysis of the bladder following fracture of the spine, the value of excretory urograms in demonstrating these changes A B HEPLER Surg Chin North

Am , 1933, viii, 1379

Congenital dislocation of the hip A Trèves Bull et

mem Soc d chirurgiens de Par , 1933, xxv, 542 Congenital dislocation of the hip R P TOLEDO and I O Alarcón Rev de ortop y traumatol, 1933, 111, 80 Open reduction for congenital dislocation of the hip

MUTEL Presse m.d., Par., 1933, M., 1752
The sequela of traumatic dislocation of the hip W J GILBER Nederl Tijdschr v Geneesk, 1933, p 3848

Intracapsular fracture of the neck of the femur F H AIBEL Internat J Med & Surg, 1933, vivi, 559 Fracture of the diaphysis of the femur due to muscle pull

Pirker Zentralbl f Chir, 1933, p 1969

I racture of the neck of the femur following bone cyst OPPOLILE Zentralbl f Chir, 1933, D 1971

The prognosis and treatment of subcutaneous fracture of the shaft of the femur C Schlatter Schweiz med Wchnschr, 1933, 11, 849

The treatment of fracture of the neck of the femur R MASSART Bull et mem Soc d chirurgions de Par, 1933, XXV, 599

The treatment of fractures of the neck of the femur and pertrochanteric fractures of the femur G GERLACH Arch

orthop Chir, 1933, xxxiii, 476

Repair of fracture of the neck of the femur with a screw DUPUY DE FRENELLE Bull et mem Soc d chirurgiens de Par, 1933, XXV, 544

Fracture of the femoral neck, bilateral hip spica immobilization V L HART Surg, Gynec & Obst, 1933, lvii,

788

The use of the Roger Anderson well-leg counter traction splint in fractures of the neck of the femur O R MILLER Kentucky M J, 1933, XXI, 573

The treatment of fractures in the lower third of the leg W B CARRELL South M J, 1933, XVI, 1054

The use of well-leg traction in fractures of the lower extremity J R Bost Texas State J M, 1933, vix, 194
Dupuytren's fracture with gangrene of the foot, Syme amputation with external flap R Leibovici Bull et

mem Soc nat de chir, 1933, lix, 1344

The treatment of compound fractures of the tibia A SIMPSON-SMITH Brit M J, 1933, 11, 1019

Skeletal traction in the treatment of fractures of the shaft of the tibia and fibula W K WEST J Am M Ass. 1933, 01, 2036

Dislocations of the ankle joint in military persons I TALMANN and N MARKELOV Vojen Med Z, 1932, 111, [359]

Fracture dislocation of the talus E Perer Zentralbl

f Chir, 1933, p 1055

#### Orthopedics in General

Wear, trauma, regeneration, occupational injury, and accident H BURCKHARDT Med Welt, 1933, pp 1125, 1160

The diagnosis of surgical tuberculosis R. McC HAL-

BACH J Lab & Clin Med , 1933, xix, 309

A pliant portable apparatus for orthopedic work on the extremities G Rifunau Rev de chir, Par, 1933, lii, 723 Artificial limbs Leather, wood, light wood, or light metal? Kirschner Med Welt, 1933, p 1278

## SURGERY OF THE BLOOD AND LYMPH SYSTEMS

### **Blood Vessels**

Chnical recognition of structural disease of the peripheral

Vessels G W Pickering Brit, M J, 1933, n, 1106
Peripheral vascular phenomena III The peripheral pulse volume in occlusive arterial diseases G W Scupham and C A Johnson Arch Int. Med, 1933, lu, 877

Local diatherms in the treatment of peripheral circultors disturbances S Perlow and K Blakely J km M \ss, 1933, ct, 1869

The treatment of thrombophlebitis, with a study of the problem of thrombosis and embolism H Weiss Zischr acretl Fortoild, 1933, va, 523

Results of treatment of intermittent claudication and thrombo angutis obliterans with parathormone D V CONNELL J Kansas M Soc., 1933, xxiv, 405

Fatal pulmonary embolism following sclerosing treatment of varicose veins with glucose solution T Krauss Zentralbl f Chir, 1933, p 2126

Pulmonary embolectomy L C CUTLER. New England Med, 1933, cciv, 1265

leute symmetrical gangrene of the ungers, its relation-

ship to the syndrome of Raynaud P PIGNIEZ, PLICHET, and N K KONG Presse med, Par 1933, No 92, 1874.

Various cases of vascular surgery J NIN 1 Silva Arch uruguayos de med , cirug y especial , 1933, 111, 489

Sympathetic and arterial operations in the treatment of vasomotor and tropluc disturbances P Bossaerts

Bruxelles-med, 1935, xiv, 52 Varicose veins E V Osius J Michigan State M Soc,

1933, xxxII, 641

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A study of postoperative chloropienia C Daniel and G PROCOPIE Gynec si obst , 1933, IX, 32

# Antiseptic Surgery, Treatment of Wounds

The treatment of wounds with artificial light K F

POLLICZFK Zentralbl f Chir, 1933, p 1975 High frequency current injuries St. JELLINEK Zen-

Hypochloremia and hypochloruria in severe burns P tralbl f Chir, 1933, p. 1969 Duyl Bull et m(m, Soc nat de chir, 1933, lix, 1291 The treatment of burns C BARON Kentucky M J,

33, XXII, 379 f the leg The value of broth injections J T MASON and J W BAKER Surg Clin North Am , 1933, 1933, XXVI, 579

The treatment of carbuncle in man with anticarbuncular scrum Our results I NATIN Semana med, 1933, xl, x111, 1433

Scalp laceration with infection The use of bacteriophage J T MASON and J W BAKER Surg Clin North Am, 1058 Acute infections of the hand and forearm and their treat-1933, viu, 1437

Moute infections of the nand and forearm and their dead-ment R B GARCI Clin y lab , 1933, xviii, 943 Clinical tetanus H I VFNER, A G BOWER, and J E McKilloi California & West Med , 1933, xxxix, 374 The treatment of traumatic tetanus, with a report of six cases C O Bates J South Carolina M Ass, 1933, xxix,

The present status of tetanus treatment, with particular consideration of magnesium sulphate therapy M SAE-GESSER Ergchn d Chir, 1933, XXVI, I

The development of crysipelas W LILERS Muenchen med Wchnschr, 1933, 11, 1092

Cases of erysipelas treated with own blood L Lajos Lrysipcloid occurring among workers in a bone button Orvosi hetil , 1933, p 755

factory G B Linson and M S STINNETT South M J, 1933, 2211, 1068

Human pseudobotriomy cosis, histological study LOMB IRDI Riforma med , 1933, vlix, 1645 Sporotrichosis and actinomycosis H Pester Zentralbl

f Chir, 1933, P 1952

Specific therapy and the allergic reactions in actinomy-COSIS E NEUBER Orvosi lictil, 1933, P 505

I report of three cases of tularamia treated by convalescent scrum L D Johnson J Kansas M Soc , 1933, XXIV, 468

Latent oas bacillus infection A Krynov Nov chir \rch, 1933, xxiii, 300 \ case of very severe staphylococcal infection treated

and cured by intravenous injections of bacteriophage. SAULT Bull et mem Soc nat. de chir, 1933, lix, 1340,

Should fusospirochetal infections be treated with arsenical. D T SMITH Arch Otolaryngol, 1033, TVIII, 760 1352

The bacteriophyse in the ambulitory treatment of localized infimmators processes R. Galli Ann ital di 13611 chir, 1955, rn, 753 In esthesia

Recent advances in an esticisia H. R. Gairretti Cana-

Tre effects of a arcous on the quantity of glutath one in dian 11 155 ], 10, 11, xux, 0,1 the usacs, crous, and blood I kesmy that Jap J

If a intravenous injection of morphine as a preliminar, Obst & Ginece, 1933, x 1, obo to a cabena C birties Muchcher med Wennschr, 19,55, 11, 1315

A study of French methods of anasthesia made under the direction of Professor Desmarest, chief surgeon of the Ambroise Pare Hospital, Paris G PLEVER-LAWTON Anes

A method of closed anasthesia T A B HARRIS Brit. & Anal , 1933, XII, 181

Improvement of the anæsthetic mask H Killian M\_J, 1933, 11, 1203

Centralul 1 Chir, 1933, P 2000

Evipan, a preliminary report on a new intravenous anæsthetic G Miller Canadian M Ass J, 1933, XXIX,

Ninety cases of evipan anxisthesia Scheicher Zen 596

Evipan sodium anæsthesia H Gocke Zentralbl f tralbl f Chir, 1933, p 1965

Evipan sodium anæsthesia and its value to the hospital Gynaek, 1933, P 1808

Ztschr f Krankenhauswes, 1933, vnu, H STEGEMANN

Our experiences with evipan sodium anæsthesia M

Experiences with evipan sodium anæsthesia. WALCH-KASPAR Med Welt, 1933, p 1285 SHOFER and BODE | Fortschr f Therap , 1933, 1x, 311

Intravenous anæsthesia with evipan sodium as a base Sussi Polichin, Rome, 1933, xl, ser prat 1885

Intravenous evipan sodium anaesthesia in gynecology P SCHUMACHER and E ADLER. Klin Wchnschr, 1933, 1,

Some experiences with evipan sodium anasthesia in operative gynecology J KALMAN Zentralbl f Chir,

Avertin as a complete anæsthetic L WATTER Anes & 1933, p 1515

The pharmacological effect of impurities in ether W Anal, 1933, xII, 249

MENDENHALL Anes & Anal, 1933, VII, 204

Nitrous oxide oxygen in oral surgery L Hevia Incs

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Soc de cirug de Buenos Aires, 1933, Wil, 1096 Peridural segmental spinal anæsthesia M Bogetti

Rev med Lat. Am, 1933, VIV, I
Controlled spinal anasthesia, its value in establishing

appropriate levels for chordotomy T Fay and N GOTTEN Arch Neurol & Psychiat, 1933, erx, 1276

The urmary exerction of novocain after spinal anæsthesia and the theory of toxic absorption S J G Now ik Incs.

Spinal anasthesia, nervous system sequele, a case in point G H Hyslop Surg, Gynec & Obst., 1935, lvii,

Considerations on the mortality in 120 000 spinal and thesias C McLLESCO and S T70 ART Presse med, Par,

Intravenous an esthesia. R. Calranta o Polichn, 1933, ची, 1904.

Rome, 1933, vl, siz prat 1933, Local and conduction in esthesia I DPLL'E

Pressure symmoc for simplification of local anathres a.

Pressure symmoc for simplification of local anathres a.

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Colored visions produced by a cocaline. G. Marrians of

Presid med , Par , 1933, No 9., 1864

Cervical rib due to dripping shoulder [1] R. Boras p.

But M J, 1933, 11, 1008

Inheritance of Dupuytren's contracture in the severe tions, il Street Naky ut 1934 Muenster, Discription Linger contrictures in milkers. Il Hell in Muen then med Wehnschr, 1955, 11 1179

Pilonidal sinus H Rogers Surg, Gyrec & Obst, 1933,

hu bo,

Cutaneous and other complications of chronic alreolar infection H C Seato and I D Wright Tancet, 1953, CCXXV, 1421

Cutaneous ulcers treated by the sulphydryl containing amino-acid cysteine L A BRU string and D & Sizio six

J Am M A.s., 1933, c1, 1937

Bismuth injections in the treatment of varts C I Lt srond, R R Houso, G W Bi arry, and D S Ion. California & West Med. 1933, xxxix, 385
Multiple tumors W I Menatra J Lab & Clin

Med , 1933, x1x, 269

Studies of tumor immunit, VIV I urther studies on the importance of the function of the sex glands in tumor stor than a hite mice L Paul Ram Lische & Krebsforsch. 1933, XXXIX, 399

The so called inflammatory pseudotumors and subcu tancous fat accrosss M Schwar Lentralbl f Chir, 1933,

Lipodystrophia progressiva W HARTSTO . Lancet,

1933, CCXXV, 1416

So called subcut incous liponecrosis A Prostrito

Arch stal di chir, 1933, xxxv, 67

Observation on cutaneous tumors IV Secondary and metastatic tumors of the skin from cutaneous and visceral tumors G Mancinorri Sperimentale, 1933, Ixxxvii,

Liectrocoagulation as the treatment of choice for epulis M DARCISSAC Bull et mem Soc d chirurgiens de Par, 1933, XXV, 579

Distributes of the thirtoid mechanism and its effects on tumor growth in mice. M. Lavish and V. H. Kroth. Am.

J Cancer, 1955 tix 517
Surreace, il chordomata in children A II Mostcouract and I J Worstes Am J Ins Child, 1033, xliv [372]

The practical application of radiosens tivity and tumor er ding D Quici New York State J M, 1955 xxxiii, 1,0

History and theories concerning eineer. I. Millians

Med res mexicana, 1925, xis, 319, 550

The griding of cincer, its relation to metastasis and priorish A.C. brodens alexas State J. M., 1953, xxix, The etiology of cureer P Nivos Stechr f Krebs

for ch., 1033; xxxvm, 105 Phylogeneus and the development of cincer

Georgia 1933 Tepng, Buth

Injury as a cau-ative factor in the development of malic nint tumors W. B. Cora, and N. L. Hickassorman [373] Apa Serg, 1955, xeem, 971

Predispo from to carefroma A SOBOLEVA Vestn

Rent enel , 1052, x, 499

Incluredity of cancer 5 Systems o and R. Gorrat-NO A Vesta Rent, enol., 1932, X, 1-9

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Micro copic des, notis of milignant tumors. G Nehora

Vesta Renthenol, 1912, x, 502 I histolopical study of cancer in the human being. I

Investigation of chromatin I Ora Jap J Obst & Gance, 2043, 154, 472

The effect of jodine vipor on the growth of jibroblasts of embryonic chief heart and malignant tumor cells in citro A STRICTLE and O M LOWER Am J Cincer 1953, 759 TIT

Some vigaries of cancer and deductions therefrom Sir H Great Internat J Med & Surg., 1953, xlv1, 578

Circinomatous crysipelis G Bindi R Deutsche Zischr f Chir 1953, ccxl, 651

Circinoma, brief reports of four unusual cises W B Holde Surg Clin North Am, 1935, xm, 1393

The doctor's practical relation to the cancer problem W C MicCiprilia Internst J Med & Surg., 1933, alvi,

553 A channeal attack on cancer C Volority Am J

Surg , 1933, xx11, 512

I adure of ethyl alcohol in therapy of spontaneous mouse cancer M. C. Marsh. Am. J. Cancer, 1953, xix, 847

Late results from combined electrocongulation and irra diation of superheial cancers II II II 12EA Am I Roent Lenoi, 1933, TTX, 806

Cancer control in North Dakota F L RECTOR 1-

Lincet, 1933, lin, 675

The portal of entry for sarcomy virus in the mouse BISRIDAA and L. GROSS. Bull internit de l'Academie Polonaise d sc ct d lettres, 1933, No 2-5, 31

A rare case of sarcoma of the great toe L. PIGREFFI

Polichn, Rome, 1953, vl, sez prat 1797

The suitable time for surgery in children I Scholz Wisconsin M J, 1933, xxxii, 820

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Hormones and genetics C J BOND Brit M J, 1933 11, 1085

I who es psych n u ses and adocume disfunction A W Powe and H M Postock Endocunology 1913

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O tran therapy i r ham philia. J C B Lum Arch. Litas I de med 1933 xxm 190 Calc um and phosph rus studi s. VII Th. eff. cts of va

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# International Abstract of Surgery

Supplementary to

## Surgery, Gynecology and Obstetrics

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# INTERNATIONAL ABSTRACT OF SURGERY

MAY, 1934

# ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

#### HEAD

Roques, P Three Cases of Submaxillary Lithiasis
(Trois observations de lithiase sous maxillare) Bull et mem Soc nat de chir, 1933, hx, 1386

The cases of submaullary lithiasis reported by Roques were those of three men thirty-two, thirty-

five and thirty-three years of age

In the first case the patient was admitted to the hospital because of a painless tumor in the left submaxillary region On its removal under local anæsthesia, the mass was found to be a very hard gland, but the calculus was not discovered at that time A month later the calculus was removed through an incision in the floor of the mouth

In the second and third cases the calculus was found on roentgen examination. It was removed in the third case, but not in the second. In the third case there was a superimposed acute infection

Following a discussion of these cases the technique of demonstrating calculi in Wharton's duct by X-ray examination is described Marsh W Poole, M D

Gifford, S. R., and Barth, E. E. Visual Sensation Produced by Roentgen and Radium Rays. 1rch Visual Sensation Ophth , 1934, x1, 81

The authors review the literature and their own investigations on visual sensation produced by roentgen and radium rays and draw the following conclu-

I The roentgen and radium rays are visible to the

dark-adapted eye

- 2 There is a difference in their visibility in that the roentgen rays may be localized accurately and small radiopaque objects may be recognized in their light The radium rays produce only a vague luminous sensation which cannot be correctly localized
- 3 Examination of vision by means of roentgen rays gives some information as to the function of the peripheral retina in persons with opaque media

However, it does not aid in judging macular function, and in certain patients the results are unreliable

4 Especially if the lenses are clear, care must be taken to avoid injury to the eyes, and not more than from 10 to 15 ma of current should be employed for a period of not more than three minutes patients with cataract this amount may be exceeded

5 It seems probable that the sensation produced by roentgen rays is due to a direct photochemical LESLIE L McCoy, M D effect on the rods

The Evolution of Ideas Concerning Gonin, J Retinal Detachment Within the Last Five Years Br ! J Ophth , 1933, xx11, 726

The following five factors are considered by Gonin to be of special importance in a general considera-

tion of retinal detachment

- r The frequency of holes or tears detected in the detached retina. The more experienced the observer the higher the percentage of tears found Patience and intensive study may be necessary to discover the tear, especially if it is very small, quite peripheral, or concealed behind vitreous or lenticular Many ophthalmologists have reported finding the tear in as high as 90 per cent of their cases of retinal detachment
- The presence of holes or tears in the beginning, and extension of the detachment Although all observers have admitted the frequent occurrence of a hole, some have maintained that the hole is the result rather than the cause of the detachment. This view the author believes is untenable on both theoretical and practical grounds. The rents are found more often in recent than in old detachments and may be seen even before separation of the retina and choroid has occurred On the other hand, retinal detachments in cases of choroidal tumor and due to subretinal fluid, as in pregnancy, are usually unaccompanied by a tear The author's demonstration that the sealing of the hole by the cautery causes permanent re-attachment is cited as final proof that the tear is the cause of the detachment

3 The couse and mechanism of the formation of the formation of the in the production of the defeationst charge an important the production of the defeationst charges.

What the assumption of the defeations of the country of the production of the defeations of the country of the assumption of the country of the country of the production of the country of the countr through a shinking process. While the presence of one of mote poles is necessary for loose detachment one of more mones is necessary to tiouse necratiment previous or subsequent alterations of the vitreous previous or subsequent attendions of the vitteous pody abow these noies to become the starting point of progressive detachment. Because of staining diff os progressave octacument accause of staming out sculitics vitteous changes are difficult to demon strate. An atrophic hole in the retina due to high strate. An attornic note in the retina due to figure myopia or a fraumatic hole will not result in retinal myopia of a traumatic note will not result in a separation unless the vitreous change occurs

The conditions of successful treatment of few years ago forty methods of treatment were o a tew years ago purty metanous or recurrence were made on release of the subretinal fluid and eighty techniques for the production of adhesions between terms and choroid had been fined. Although good results were obtained to some cases and poor results results nere obtained in some cases and poor results in others the reason for success or failure was never Thousand Closure of the teat 12 essential to the success of random has mere Autung Ciosate of the tear should be incorporated or operation and the test about the incorporated directly of indirectly in the ear. When this is impossible as in large distinguishing a harrier or line of adhastions must be modified to receive advance of the control of advances. possible as in large disinsertions a partier of unit of adhesions must be produced to prevent advance ment foward the center of the retina

form toward one center on the returns

5. The best way to meet the requirements of
successful treatment. The Paquelin Guttery was the
form many model for the market of a many toward the polar by Since Don't readment and raqueum cautery was the first means used by the author to scal the holes. It hrst means used by the author to seat the noises a produces larger areas of cicatrication than the gal produces senger areas or commonous man one gas anocountery and as a rule yields the desired result sath fewer punctures Secondary tears reported after the use of the thermocautery are probably due after the use of the inermocautery are provably due to improper technique. The author has not ob to improper vectorique and author has not on Served them. Disadiantages of the method include served them Designatinges of the method inchange into the risk of hemorrhage into the vitrous at the time the roy of memorrange into the vitreous as the time of operation of later and the difficulty or impossibil or operation or rater and the difficulty or improvement ty of making more than one or two purctures at the ty or making more main one or two processits are on three opera same secting this necessariating two or three opera-lions in cases of tery large holes and those in which tions in cases of very large noies and those in which the localization has been uncertain. In cases of the the to be chemical cauter ration with potash after a series of trephine holes have been made has some a section of reformer notes have need make not some at altage nuc it is a very long and tectous opera ton without uniformly good results Dungs the past three least here have been introduced various past ture years there have been introduced various methods for sealing the retinal tear by utilizing the coagulating power of the h gh frequency current coaguants power or the aga requency current ether through the unperforsted sclera by many of a ball shaped electrode or by means of needle electrodes made to penetrate through the scient elections made to penetrate through the science to the choroid and retina. The author believes that to the colored and rectual the author beneves that it is still too early for final Judgment of these methods. He states that each case should be stud ed metapos fie states that each case should be student and treated by the method best adapted to its needs Exact localization of the tear is essen tial in any method

#### Magitot A WILLIAM A VANN JR M D Sitor A The Supr tinal study in 19 opating D tachment of the R tinal 4 h Ophih 934 The Subr tinal Fluid in Id opathic

The e has been a difference of opinion as to the origin of the flu d beneath or between the layers of

the retina in cases of retinal separation. Leber the rottins in cases of rotting separation Leper claims that this fluid has the same characteristics as the vitrous whereas others white that its album uons charactet biorca it to pe su exagate ous character proves it to be an extunsion.
Subretinal fluid obtained at operation for retinal Supressing using obtained at operation for tectinal detachment was examined by the author in a series octationent was examined by the author in a series of cases. Relatively large amounts of albumin were of cases Remarks have amounts of anymount found in general the quantity was less in recent toung an secretar the quantity was less in recent cases than in those of long standing but there seems taces to an in those of long standing put there are to be no exact rule governing this relationsh p

to be no exact rule governme this relationship in albumin content was usually accompanied by age anomin content was usually accompanied of a Jellowish tage. In some cases the albumin con a senowish tinge an some cases the another ient was greater than that of blood serum tent was Streater toan tent or blood serum the anathic tinge was probably due to old harmorrhages xantnic tinge was properly due to did na morrhages of a leakage of blood. The amount of dextrose varied or a teahage or otood and amount or dextrose varied was relatively small when the slip of the function of the reina was presented. Therefore the percentage of sugar may be considered an index f the functional state of the retina and permits a prognosis and regard to retinal function after surgical noss with regard to retinal function after surgical intervention. The amount of chlorides 1 as found intervention The amount of entorings and solution to be variable and to bear no relationsh p to the amount of albumin

In chemical composition the tetinal fluid resem in enemical composition the terms it may tesem occurain more albumin and more sugar than the contain more albumin and more sugar than on blood setum indicates that it is not a simple exudate booo serum indicates to at it is not a simple expurie pathological findings show that the high content of returning the manings show that the migh content of solids as due to the products of sell disintegration South a true to the products of con the succession in And autum neutrics that the num has its urigin in the reings and not in the choroid (which is usuall) normal) and not in the vitreous as contended by

## Anapp A. Ope att e Treatment of Detachment With Electrocoagulation WILLIAM A MAY IN W.D. A. Ope att e Treatment of Recinal

After a year's expenence in the treatment of After a years experience on the measurement of the detachment by ignipuncture according to the method of Gond and another years experience in memous or owner and another year's experience in its freatment by the t ephnoation and cauterization its freatment by the a epimpation and cautes teaminethod of Guist and Lindner knapp reports the mention or court and Lindner Anapp reports the results in thelve cases operated upon during the past tenuts in the vecases operated upon during the pass year any two newes unattermy mention are et au vantages of temporature are chefly the 1 mited applicability of the method loss of vircous destruc appucability of the method foss of vireous destruc-tion of retinal tissue and late harmorth ge. Tre ton or termet usage and rate namorin ke fre phination followed by cauterization with potass um phination followed by cauterization with potass um and droude has proved less dangerous but is an ex distribute has proved these dangerous and he are ex-tremely lections and difficult proceeding and assotreme, sensous and our cust procedure and asso-cated with the possibility of chorodal perforation and intra ocular incurrence. The distinct my methand intra occurar namoratings: any mastic my meta-od advocated by Weve Larrson and Safar shigh od advotated by these harrson and salar values for its purpose the production of an adhesive at D ent

ery popular Of the twelve patients treated by the author by the datherny method eight recovered completely two see benefited and to 0 were not benefited sweral had been operated upon previously by the Several and been operated upon previously by the distribution of the distribution treatment the Course forction and the substitution of the su

the diathermy method is the most successful method for the treatment of retinal detachment yet devised. As in all methods, preliminary study for exact localization of the tear is essential. When this is impossible, the only treatment is coagulation of a large area in the region where the detachment began. Under such circumstances the prognosis is always questionable. During the course of the operation the fundus may be inspected.

In conclusion the author emphasizes that the diathermy operation is a symptomatic operation, and much remains to be learned regarding the pathology

and pathogenesis of retinal detachment

WILLIAM 1 MINN, JR, MD

#### EAR

Ruskin, S. L. The Venous Circulation of the Petrous Bone and Its Clinical Significance Ann Otol, Rhinol & Laryngol, 1933, xlii, 961

The author states that the venous pathways of the temporal bone play a leading role in the dissemination of infection from the tympanic cavity and the causation of intracranial complications Larly extension of involvement of the venous system can be recognized clinically and should serve as a guide for early accurate intervention. The Gradenigo syndrome should be considered a sign of venous engorgement of the group of tympanic veins emptying into the inferior petrosal sinus. The syndrome of temporomavillary orbital pain, trismus, and adema of the lower lid is of similar significance with the Gradenigo syndrome, but represents venous engorgement of the veins of the tympanic cavity draining anteriorly into the pterygoid plexus and middle meningeal vein

Larly incision of the drum membrane and the induction of free bleeding from the middle ear afford relief from the symptoms and may prevent suppuration of the petrous pyramid However, it will not relieve advanced involvement of the petrosa with

suppuration and bone coalescence

In conclusion the author emphasizes that the orbital and trigeminal symptoms may be induced by mechanisms affecting the pterygoid and middle meningeal venous systems other than of petrosal origin, and must be carefully differentiated in order that unwarranted surgical invasion of the petrous bone may be avoided James C Braswell, M D

#### NOSES AND SINUSES

Watkins, A. B. K. Notes on Nasal Plastic Surgery J. Laryngol & Otol., 1933, xlvm, 809

Watkins calls attention to the fact that fracture of the nasal bones is nearly always a bilateral fracture with rotation of both nasal bones around their vertical axes in the same direction. The treatment consists in simply rotating the nasal bones back to their original position. It is important to maintain this position during healing as there is a tendency for the deformity to recur. In discussing internal

and external pressure splints the author describes his modification of Carter's splint and shows it in an illustration

In making implants for the correction of saddle nose, Watkins uses autogenous rib grafts. He claims that they neither grow nor atrophy even if left mobile in subcutaneous tissue. Ordinary bone grafts are quite unsuitable because bone, unless fixed at one or both ends, undergoes atrophy. The author emphasizes the necessity for a columellar graft in addition to the dorsal implant to insure a good result.

He describes the dermo epidermic suture which he uses to reproduce the normal groove between the cheek and nose in repair in the alar region. The sutures are inserted so that the epidermis of the cheek is in contact with the deeper layers of the dermis of the ala.

When large areas in the region of the nose must be excised, simple suture of the defect may produce considerable deformity and asymmetry. To correct these sequelatit is necessary to use ingenuity in mapping out sliding flaps from the edge of the defect. The author shows his procedure by means of drawings and photographs.

Massive defects must be repaired by pedicled tube grafts Grafts from the neck cause trouble because of weight and traction. The author therefore uses tube grafts from the cheek and replaces the resulting cheek defect by an immediate Wolfe graft

applied with the use of a pressure splint

JIMES C BRASWELL, M D

Seydell, E. M. Fibro-Epithelial Tumors of the Nose (Papillomata) and I heir Relationship to Carcinoma. Ann. Otol., Rhinol. Laryngol., 1933, Aln., 1081

Fibro-epithelial tumors of the nose are rare. In a review of the literature up to 1929 the reports of only sixty cases were found. The author believes it possible that the tumors are often mistaken for polypi or other benign growths or for carcinoma and

therefore are not reported properly

Fibro-epithelial growths arise as solitary or multiple tumors varying in size, form, and consistency They occur most commonly in the vestibule of the nose on the anterior portion of the septum. They may arise in the posterior or superior portions of the nasal cavities, especially from the middle turbinal and ethmoid regions Very rarely they occur as primary growths in the paranasal sinuses They are composed of both epithelium and vascular connective tissue The supporting tissue is sharply demarcated from the epithelium covering it The cause of these tumors is not definitely known The neoplasms resemble ordinary polypi except that they are a deeper red and of firmer consistency. In some instances they appear as a series of deep folds in the mucous membrane, while in others they appear as cauliflower growths

The symptoms are rarely severe Masal breathing may gradually become impaired Secondary sinus

infection occurs when pasal obstruction is present discrimentages are infrequent Broadening of Assai nemorrhages are instructure in business of the fort of the hose due to distention or lestraction of the nasal bone has I cen reported

tine assat vone has trea reported
A diagnosis of nasal papillomata cannot be made A trageous of massar papmomata cannot be made on the base of the macroscopic appearance of the on the pass of the macroscopic appearance of the morphasms may resemble ordinary

fumors and neoppassus tast testance organisty folips (ct) closely Slo growth and absence of polypi very clusers 500 v gro vin and ausence of mploons and metastages suggest that the tumoris Imploms and metastases suggest that the tumor is beingn but cannot be refied upon as a diagnostic penian out cannot be relied upon as a diagnostic effection in cases of Diposis toro of amount and those in which frank malgranacy is present and trose in trained status manufactory to present there should not be much difficulty in making a diagnosis by biopsy

lagnoses oy coops; souls increase in size Some devel n into large dumors while others spread over a considerable tumors while others spread over a consucrative portion of the nostral without forming a large tumor Postured of the dostric without forming a large tumo.

Destructs n of tissue and bone bas been fre Thenth of served and in a number of cases the par floma has invaded one of the sinuses. Thus the par nouse has to sace one or the annues area to the first party leading meaningitis the prognos 3 is more favorable if the tumor is obitaty and if it is located in the anierior half fithe ose When the lymors are remo ed 1 tth a space Punch they usually teen frequently within a source punch they usually recus frequently within a ten-ought, and the secondary gro the dien at one the last run to the parent growth files utreness if removed vill bleaus ground. Here

arrences a temorea in anence return when aith as much of its base 23 possible should be done anto as much or its case as possible should be done the fissues from which the tumor prang should be Are tussics from annual the tumor prang anouto of destroyed with a galvan cautery or by datherms essive or with a Karran causers of the diagrams. Rocatgen 128, and fadium irradiation have pro-ed i be of great value

on kreat same in ca es of multiple tumors removal of all patho logical tissue to the bone or cattilage shi uld be don logical cissue to the pope of cartnage sit and of uon and followed by \( \frac{1}{2} \), as of radium the app. If the and followed by tray or radium the app in the sinuses are moved ed external radical sinus surgers sinuses are into co externar rautes annua surface is indicated. In the att pical or questionable cases

is indicated in the all pical or questionable cases, add, able to destroy the tumor by diatherm. M NORT E FICHLENRIF / A D

Duhail M. P. Noma T eated Early by The two half M. P. Noma T cated party by its tra-cauteri ation and tast Gangrene S mm Th Cut (\mathrm{\text{m}} at a the price m t p th mo py the matatic price in 1p at a set set therap riga set new for the sap riga set new d k & de P n) Bu , " XX 00

The case reported 1 as that of an infant six months The condit is f llowed trauma f the uppe but the topout of towned trauma at the upper such that infant s gum motifica which occurred which the intensity mother apply da lump of st gar at the site f erup notiner appropriate to a form of significant time size coup toon of a tooth. It as ch actenized by high fever tion to a touth it as on accented by high fever marked prost at n and an area of gangrege in the mouth Immediat thermocaute trait n of the af moute ameeting interminence that it we the sa-fected region, as don the entire diseased a ca be ng deciro region as una time entire unacosta a accuss debinded. A sp nge soaked with anti sangaren erum was then introduced into the wound and re

I laced daily for a few lass and subcutaneous injec-Flaced daily for a few lays and subcutaneous injections of the serum in dues of 5 ccm were given for a rumber of days. I restrictly the infant made tor a 1 univer of majs 2 ventually the intans made a good recovery with very light re-fluid def miles

The author emphases the ell in wn fact that nows is most and to seem the south mount of the sou leb stated fees as fill wing mall by res and trau mata in the mouth type physical the a lites cau mana in ine mount is proposal, me a trivea con certain a fall sores an ule ra f the nouth with (ergan) a Lan sores and out is the new own win he believe, will abert many senous mouth infections. Egg ra C

Jose W I Pro WD Cancer of the Mouth 934 2012 69

In discussing var ous plans of treatment of cancer of the mouth Exers empha izes that no one method is applicable to all cases

apprecause to an cases Since invasion of the neck nodes by ca cin ma onice mean on or the neck nodes by callin makery materially diminishes the chances of cure the very materially a ministers the trainies of three toe aim should be to remote the lymphatic drainage aim so use to temate the symposic orasinger area topether with the primary less on unless this s area (operator with the primary tes on difference on the primary less a term the term contra indicated or (ne primar) ica da ma con con-carl) slages and f a low gra le of manignance

its stages and 1 a low grate of mangnancy In certain small lessons in which is mph node in of the reck a wall occurs quite late and thron-come of the vicks waith occurs quice sate and in early, less one of the cheek, plante or gums an application of 1 and aim or a seedie shaped excession of the cheek plante or gums and the cheek plante of the cheek plante appropriate in a ranging or a needed snaped element of the more extensive [p] case, occan went out in the more extensive applications vide extensive applications and block testions time recast n of the primary tumor and noval discertion of the n ck a c indicated. If the less n

to occupie or the n ch a c too cated a time too a definitely unifateral a unifateral need d section is as an inters unmasteral a unmaterial next a specious is stillated in the median ne bilateral dissection should be done the material massection shound be done
In cases of concer of the tongue and the floor of the

And case of conter of the tongue and the power of the mouth. It is best 1 proceed more radically and the roles for removal of the lymphatics are the same as the s in the treatment of can er elsewhere Regardle s of to the reatment of an er eisewhere Account a vi-the type of treatment of a primary lesion, the lymph the type of treatment of a primary tesion the tympu-nodes of the neck should be removed on both des the first operation the author usually performs a block dissection and I gates the lingual arter on a none unsection and i sites the ingust attent on the affected side. As soon as the a und h s healed the anterest stup as soon as the warm a strate of the operates on the other de and at the same session the operates on the other the annual the value occasion in the merely removes extripates the mouth resion r ne mercy the mouth lesson the elect ocautery latte and the mouth resion v in the elect ocautery same and defers the block dissection on the other side to a deters the colors wascetton on the other one to a life states that b lateral neck dissection an one sitting is a severe stra a on the patient and

should be done only in nell sele ted cases. JAMES BARRETT BROWN U.D.

Lund C C Sec nd Primary Cance in Cases nd C C Sec nd Primary Cance in Cases 1 Cancer of the fluccal Mu osa A Mathemati al 

Lund cite the conclusion dra n recently by Arten and Gates f m a study of utopsy material that a independent cancers in the same pat in a second of found about 4 times as often a can be accounted for by chance This incidence is the gross incidence based on all types and locations of cancer Lind unade a milar st dy but approached the problem

from the clinical point of view and limited his investigation to one variety of carcinoma

Statistical evidence in a series of 1,548 cases of buccal carcinoma indicated that the development of a second carcinoma of the mouth is about 15 times as common as it would be if chance were the only factor.

It showed also that the development of cancer of some other organ is about tyace as common as it is in the population of the same age and sex

The author's iggests that the ratio between the increased tendency to new cancer in general and the much greater increased tendency to new local cancer may indicate the relative importance between general ractors, such as heredity, and local fractors, such as irritation, in the causation of buccal cancer.

In conclusion he says that the frequent occurrence of second cancers must be kept in mind because when a second cancer is given proper treatment the prognosis with regard to this lesion is as good as that of the first cancer and much better than that of recurrences

James Barrett Brox, M.D.

## Wardill, W. L. M. Cleft Palate Br t. J. Surg., 1933, XVI, 347

The author gives a brief description of the mechanism of speech, stressing the importance of the muscles which are brought into play and Passavant's cushion. He then describes the operation of pharyngoplasty which has for its object the construction of an artificial but exaggerated cushion of Passavant on the posterior pharynged wall. This is accomplished under intratracheal nitrous oxide oxygen and ether anasthesia. On the postpharyngeal wall a transverse incision passing through the superior constrictor muscle is made and sutured in a vertical direction. At the same sitting the palate is repaired if the patient's condition is satisfictory accomplished by raising mucoperiosteal flaps through lateral incisions in the palate close to the alveolar margin. The hamular process is completely divided on each side and the soft palate separated from the posterior edges of the hard palate. The edges of the eleft are pared and sutured together. The nasal mucous membrane is sutured with fine catgut, but for the undersurface of the soft palate and mucoperiosteum of the hard palate fine silkworm sutures are used

In seventy-two cases operated upon by the author there were three deaths, a mortality of 4 r per cent. The deaths were due, not to inherent defects in the operation, but to avoidable accidents.

In a consideration of the results of the operation there are two criteria of success first, restoration of the palatopharyngeal valve, and second, restoration of normal speech. Several simple tests to determine the existence of a competent palatopharyngeal valve are described. Of the fifty-five patients traced by the author, nineteen had a competent palatopharyngeal valve and therefore the functional physiological mechanism of normal speech, thirteen were able to

speak without any cleit-palate stigma, six had neither normal speech nor a physiologically competent vilve, and seventeen were too young to test or were operated upon too recently for judgment of their speech

The prognosis after operation depends largely upon the ige at which the operation is done. The best results may be expected when the operation is performed during infiney. When the operation is done after the stage at which speech has been acquired the prognosis takes on an entirely different aspect. Acuity of hearing, a certain amount of in telligence, and above all, ambition, are necessary for complete success.

Proper speech training is of great importance, but there must be close cooperation between the surgeon and the trainer. When the operation is completed after speech has begun, the training is much more complicated. Although speech training will cause mark edimproxement, it will never produce perfect speech. The type of eleft present has no influence on the type of speech adopted.

A large number of patients who have had the pulite repaired lack a functional valve and therefore have poor speech. Pharvingoplasty performed on such patients is capable of restoring a valvular mechanism and in the right type of case causes marked improvement in speech. The pulate may be lengthened by paring the free edges of the posterior pillars of the fauces and suturing in the midline. In certain cases this procedure results in considerable improvement.

William G. Hama, M.D.

Casella, E. Contribution to the Study of Palatine Flasures and Harchip (Contribucion al estudio de las fisuras palatinas y labio leporino). Rev. méd. Lat. 1m., 1933, xix, 119

The author reviews in considerable detail the embryology, anatomy, and physiology of the palate Factors present during fetal life result in failure of fusion of the mixillary process with the nasofrontal process which causes a cleft. I auth fusion of any other component of the superior maxilla may also result in a fissure (macrostomia, facial colobomia). Photographs from Veau's work are shown to illustrate varying degrees of harchip and cleft palate.

Treatment should be given early as the condition interferes with nursing, mastication, deglutition, and phonation. It may be surgical or prosthetic or both. Speech training is important. The author reports the findings of his study of the psychic effects of the deformities on his patients.

The article contains drawings and photographs of patients and museum specimens. Among them is the picture of the skull of a three-year old calf with a wide cleft palate. There is a bibliography of thirty references. T. W. STEVENSON, JR., M. D.

# Hall, I S Progressive Ulcerative Reticulosis of the Palate J Laryngol & Olol , 1934, xhx, 35

The author reports a peculiar type of ulceration of the palate which progressed to a fatal termination

The patient i as a woman thirty two years old the the patient; as a woman toutry two years out the mother of six healthy children. Her illness began mother of six nearthy chimoren ther miners overand which a sore throat eight weeks before her admission to the hospital. Soon thereafter she noticed a small to the hospital Soon increaties one number a Summer syclling on the hard palate. Later this softened and

became ulcerated came unceraced On examination a perforation of the hard palate was discovered A three weeks course of antiwas unservered a times weeks course of and syphilitic treatment which was given although the syponute treatment which has given almongst the Massermann reaction was persistently negative president of the theory of the company of the c resulted in no improvement. The uncer that no deal nite characteristics and 8.23 not accompanied by enlargement of the lymph nodes Urine examination entargement of the sympa notes. Unus examination was a search ve and there appeared to be no visceral disease. Examination of the blood showed a leuco disease Examination of the piood snowed a reaco pagna with a pers stently h gb polymorphonuclear pema with a pers security in gu posymorphonuciea, ieucocyte count and slight secondary anamia. Bi cacceptic evant and angat accountry amenia in oppy disclosed no evidence of carcinoma or tubercu opsy uscrosed no evidence of cartinomia of thoering loss and failed to yield the criteria of a newgrowth losis and taued to yield the triberia of a newgrowth Radiotherapy was without beneficial effect. The Manuscherapy was without Denential enece indicer enlarged progressively an erythematous pain

less swelling appeared over the pudge of the nose tess swemmy appeared over the bridge of the nose and shortly before death small bullar and nodules and south necroic centers which involved the whole with necrotic centers water involved the water thickness of the skin and on bursting evacuated a few drops of serous fluid appeared on the skin of the

Postmortem examination showed in addition to the local and cutaneous lesions observed clinically a the total and cutaneous resions observed citizenty a septic leptomeningitis due to extension through the seput apponeum sus aue to extension turouse the might cribiform lamina polimonary congestion and extens and several small white 6 m podules in the continuous susceptibility of the continuous suscept ecquina and several small write a m monairs in the pullmonary parenchy ma and the renal cortex. His pulmonary parenchyma and the renal cortex riss tological examination of the epiderm's and of the tological examination of the spiderin's and of the nodules in the kidneys and lungs showed infiltration noduces in the kidney's and tungs knowed innutration by cells of a primitive type in high there was no evidence. of Jumph node involvement the dissemination of the probably occurred by way of the blood st eam reviewed

Thirteen cases collected from the literature are The cau e of the ulceration is unknown. The on And can e or the succession is unknown the on dition is not familial and does not follow trauma. It dition is not sammat and over not tomor training at begins as a 1 Calized saeling usually on the roof of the mouth Later there is p ogr ss e utc attoo or the mouth Later turne a Poxi sa conte ation with pef ation of the palate and dest uction of the with period of the parate and description spectral and the conchal and nasal boundarie

Only Farely is the progress of the ulc ation checked even temporarily varies from four months to two less All drug ment that seems to be of any taken's deep \ \text{rev} \text{ \text{rev} \text{rev}}

#### Da I A D WILLANG H MM VID Palatoplasty U ing Extra O 1 T/s

Flaps from the forehead pharyngeal flap if ps from the arm similar to those used in Hahan thino from the arm similar to know used in Atalasa sumo plasty transplanted fingers nasolabial flaps are plasty transmanted ingers masousman maps and shaps from the neck and chest have been used to close naps item the nerk and thest have been used to know palatal defects. The methods are subjected to critically

cism by those who advocate prostheses or use closure Cism by those who advocate prostnesss or use closure by airs or al tassue. The method of choice should of the oral tissue are method of enough to permit free produce a veium nexture enough to permit new movement and long enough to allow closure of the novement and rong enough to anow closure of the oppur should orophar) nx by the dorsum of the tongue shoon provide a nasal as well as an oral epithelial zed sur provine a masar as were as an orar epitical and should not produce deformity

The author reports a case in which a tubed pedicle hap was used with considerable success. The tube was raised on the left side of the abdomes and after has raised on the inert side of the automore and after a time attached to the themar eminence of the left a time attached to the thenar eminence of the sent hand the arm being beld in plaster. Next, the tube hand the arm penagonin in phaster. Next the thoe as released from the abdomen and attached to the ) as receased from the automeo and attached to the feeshened anterior edge of the defect. Three weeks leanency success, eage of the neutron and was liberated and the stump of the tater the name was increated and the stump of the defect At this stage a Brophy redectoscope and masai feed At this stage a morphy renectoscope and mash tred ing a ere used. Fat was then removed from one side and the graft attached Later 2 similar procedure and the grait attached Later a simuar procedure was done on the other side. The valuous steps in the was some on the other side. The various steps operation are shown by eighteen photographs THOMAS W STELENSON W.D.

# Lazarus J A and Rosenthal A A Late al Ab

In 19 6 Shrager defined an aberrant thyroid as a an ity o our ager uses an aberrant thyrou as a mass of tissue with the structure of a normal or mass or usue near the seructure or a normal or pathological thi rold gland which is situated at some pathonogenal this rold grand which is saturated at some distance from the normal gland and has no con nection with it

The origin of lateral aberrant this roids is still a The origin of lateral apertant instruoy is anno moof question. The most plausible theory seems t be that advanced by Grosse vho maintains that these structures develop from clusters of cells an ing from the posterior aspect of the fifth branchial nouch Seventy per cent of aberrant thy roads gri tise to neoplasms of the papillary () pe. The other lesions are papillary adenocarcinomata epithe resous are papulary auenocartinomass epithe should alveolar carcinomata and care homata The timor usually grows slowly and is subject to the tumor usuany grows money and is suppressing foliational changes such as Costic degen at in n to outstonar chaoges such as Sourc degen at in the margin large and calcufaction. It usually has a nemortnage and calcincation at usually has a well defined capsule. Although these turn s are wen neunen capsuse annough these tum s are found most frequently in the neck they may ofcur

also in the bones plents pe ice dum and overtes so in the bones pieurs pe us unom and ovaries Lateral aberrant thyroids must be differentiated Lateral approach to the from (1) carond body tumors (2) tuberculous stom (1) carona poor tumors (2) tuperculous (3) branchial Cysts (4) Hodgins disease grands (3) oranemai c) sis (4) mongain s disease
(5) se ondary or metastatic ca cinoma (6) i impho 15) se onuaty or metastatic ca cinoma (o) i impno sarc ma (7) lymphatic leukæmia and (7) syphilitic

lands
In cases n which complete extirpation s d n the prognos 3 is good. If the growth not remove ext (pation of the aber ant tussue should be at

car spation or the aper and usage should be at tempted as incomplete removal is often f llowed by recurrence Operative procedures a e difficult b cause of the close proximity of the tumor to im portant vascular and nerve trunks The capsule

should be included in the extirpation Following operation, X-ray treatment should be given in all cases

HOWARD A MCKNIGHT, M D

Cohen, M H Leg Ulcers Due to Thyroid Dysfunction J Am W 1ss, 1934, cu, 283

A case of deep ulcerations of the lower extremities associated with myxcdema is reported. The administration of thyroid extract quickly healed ulcers that had persisted unchanged for six years.

The cutaneous changes in thyroid diseases are not well understood. A relationship between circumscribed myvædema of the legs and leg ulcers of obscure etiology is suggested. SAMUEL KAHN, M.D.

Brazier, M. A. B., and Grant, F. M. The Relation of the Impedance-Angle Test for Thyrotoxicosis to Changes in the Basal Metabolism *Lancet*, 1934, ccxxv1, 125

It has already been shown that the impedance angle is unaffected by the ingestion of food, evercise, or menstruation

In agreement with previous observations, the basal metabolic rate was found by the authors to be increased in the normal person by ephedrin, pilocarpin, thyroid extract, and thyroxin, but not by atropin or iodine. Of these drugs, only thyroid extract and thyroxin have an effect on the impedance angle. The authors therefore conclude that a change in the impedance angle is specific to a thyroid factor and is not affected by chemical stimulation of the autonomic system reacting on the basal metabolic rate.

Samuel Kaen, M. D.

Wallace, H. L., and Wevill, L. B. Toxic Goiter An Analysis of the Results of Surgical Treatment Edinburgh M. J., 1933, xl, 598

This is a statistical analysis of 285 cases of toxic goiter treated by thyroidectomy at the Royal Infirmary, Edinburgh, in the period from 1922 to 1932 Follow-up information was not obtained in 34

There were 6 female patients to 1 male patient The histological diagnosis was primary toxic or exophthalmic goiter in 146 cases and secondary toxic goiter in 117 cases. The primary toxic goiter was most frequent in the twenty-ninth year of age and the secondary toxic goiter in the fortieth year of age. In both sexes and both types of goiter the duration of the symptoms ranged from thirty-five to fifty months. The severity of the symptoms was not radically different in the 2 types of goiter.

Subtotal thyroidectomy was done in 172 cases, lobectomy in 65, and removal of an adenoma in 21 In 21, miscellaneous operations were performed

Of the 187 patients followed up, about 75 per cent are now in good health and able to perform their usual duties. In 48 per cent of 125 cases the evophthalmos completely disappeared. Only 3 patients showed evidence of myxcedema. Three others showed symptoms of parathyroid tetany.

Of the 285 patients, 35 (12 3 per cent) died as the direct result of operation

PAUL STARR, M D

Schreiner, B. F., and Murphy, W. T. Malignant Neoplasms of the Thyroid Gland Ann Surg, 1934, xxix, 116

During a period of twenty years forty-two cases of malignant neoplasm of the thyroid gland have been recorded at the New York State Institute for the Study of Malignant Disease These constituted o 37 per cent of all cases of malignancy recorded during that period Coller, Clute, De Courcy, Balfour, Speese and Brown, and Simpson are quoted as giving the incidence of malignancy in cases of thyroidectomy at from 1 2 to 4 per cent

The average age incidence in the forty-two cases reviewed by the authors was fifty-two and six-tenths years. One patient was in the third decade, six were in the fourth, eight were in the fifth, nine were in the sixth, seven were in the seventh, ten were in the eighth, and one was in the ninth. The pathology of

the tumors is discussed

In all of the forty-two cases there was a history of previous thyroid enlargement. The duration of this enlargement ranged from one month to forty years and averaged four and ninety-seven hundredths years In the cases of eighteen patients with far advanced malignancy biopsy was not done. Of fourteen of these who were treated by roentgen irradiation alone, eleven died within a year and two within two years Of three who were treated by radium irradiation alone, two died within a few months and one is still living after four years. One patient who was treated by both roentgen and radium irradiation died in a few months, and one treated by roentgen irradiation is living at the end of one year Eighteen patients had been operated upon radically before their admission Of these, twelve were treated by roentgen irradiation alone, four by radium irradiation alone, and two by both roentgen and radium irradiation Of the twelve treated by roentgen irradiation alone, two are alive after from one to two years, one is still living after four years, and one died after two years from cerebral hæmorrhage. Of the remaining nine, seven died from the thyroid malignancy in less than a year and two after from three to four years

In the authors' experience, malignancy of the thyroid is rare and usually fatal. The only curative procedure is early operation followed by irradiation. When clinical diagnosis of the condition is possible the case is usually hopeless and irradiation is only palliative.

Paul Starr, M D

Smith, L. W., Pool, E. H., and Olcott, C. T. Malignant Disease of the Thyroid Gland. A Clinicopathological Analysis of Fifty-Four Cases of Thyroid Malignancy. Am. J. Cancer, 1934, xx, 1

The authors report a study of 42 cases of thyroid malignancy treated at the New York Hospital in the past thirteen years, during which period there were approximately 100,000 admissions and 855 thyroid specimens were examined. They studied also 12 specimens of thyroid malignancy from other sources. The ages of the patients ranged from twenty-two to

# INTER\ATIONAL ABSTRACT OF SURGERY

sixty mine years and averaged forty eight and eight saxty nine years and averaged forty eight and eight fenths years. Forty one of the fifty four patients tentas years Forty one of the mit four patients were women The previous existence of an adenoma were women an eprevious existence of an adenomal was recognized as the essential factor in the develop

was recognized as the essential factor in the development of the malignancy in 92 6 per cent of the cases tenc of the mangnancy in 92 b per tent of the tases. The tumors were of the following types papillary Ane tumors a ere of the following types paperary fetal adenocarcinoms, ep dermoid adenocarcinoma tetal adenocarcinoma ep derinoid carcinoma guat cell carcinoma amali round cell carcinoma and sacroma Each type je discussed in detail and shown by photomicrographs

A correct diagnosis is made before operation in only a small percentage of the cases as there are no only a small percentage of the cases as there are no clinical symptoms suggesting the nature of the Chincal symptoms suggesting the nature of the fundamental prognosis is definitely unfavorable. In the authors opinion irradiation is the freatment of

choice Surgery is of little as all after the fumor has coorce surgery is of fittle avail after the tumor has also the capsule of the adenoma or the par

The author discusses the syndromes of Collet And autnor discusses the syndromes of Louer Schmidt Avell's Tapia Sicard Jackson verner occurring Aven's saped and Villaret and points out the fallacy of each He and t start and points out the tassacy of each one contends that the classification should be based on

the situation of the malady He suggests the follow ng ciassincation
A Syndrome of the bulbar nerves Paralyses of the vago accessory of central and extra medullar

the 14go accessory of central and extra medulus of B. The 33nd ome of the jugilar foramen the syndrome of the jugilar foramen they are the syndrome of the jugilar foramen they are the syndrome of the jugilar foramen they the aynorome of the Juguar corange was parted by verget. This includes only perpetent hamed by ternet into includes only peripheral cases inside and outside the skull. It is a defined cases mance and outside the about it is a defined malady with a definite diagnostic againstic act hot both many with a decurre traganstic against and all three nerves need be completely paralyzed. On

an orner nerves need or comparing paragraph of the contrary energy affection in or near the jugular the contrary every anection is foramen belongs to this group

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and the syndrone of the province of the paraphary near the syndrone of t Amo is cuaracterized by Paralys 5 in the province or minth tenth and twelfth cranial nerves and the null tenin and twenth cranial nerves and the sympathetic nerve. It is a low vagus paralysis the sympathetic nerve at is a tow vagus paratisms toe situation of the malady being lower in the neck than situation of the laguage owner in the next unea in the syndrome of the Jugular foramen. As a rule in the statione of the Joseph Avanca as a face eleventh cramal nerve and the palace are not the neverth cranial nerts and the palate are not unaffected in some cases even the vagus may be

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D The vocal cord diaphragm s) adrome This 15 a rare simultaneous paralysis due to the compara a tate summitaneous paraty as one to

VORMAN C BAILDON M D

#### SURGERY OF THE NERVOUS SYSTEM

## BRAIN AND ITS COVERINGS, CRANIAL NERVES

Bykov, K The Functional Relationship of the Cerebral Cortex to the Internal Organs (Funktioneller Zusammenhang der Hirnrinde mit den inneren Organen) Vesluik Chir, 1932, laxui-laxui, 12

The author reviews experiments carried out in Pawlow s school during recent years in a study of the conditioned reflexes of individual organs and of functions depending on many organs such, for example, as the function of the consumption of oxygen From these studies three main problems arise (1) the determination of the possibility of the development of conditioned reflexes affecting the kidneys, liver, and spleen and thereby explaining the relationship of these organs to the cortex of the brain, (2) the determination of the possibility of the development, on a function, of conditioned reflexes having their origin in irritations taking effect in the internal organs, and (3) the demonstration of the internal mechanism of the conditioned reflex activity of the internal organs or general functions such, for instance, as oxidation

With regard to the first problem, the author states that he, Alexejev, and Berchmann have been able to show that when, in the case of a dog whose ureters have been brought to the surface of the body, the introduction of water into the stomach or rectum is followed by diuresis and this experiment is repeated from eight to fifteen times, the diuresis will occur later without the administration of water if the dog is again placed under the same conditions found also that if a certain sound is made at the time the water is introduced at first, the diuresis will be produced later merely by this sound without the introduction of water This conditioned reflex occurs according to the law which was previously determined to govern the reflex of the flow of saliva. It gradually weakens unless it is stimulated from time to time by the unconditioned reflex (the introduction of water), and it is inhibited by other unusual reflexes

In the solution of the second problem the liver was selected as the "effector" organ, that is, the organ showing the effect (Ivanov) In a dog with a gall-bladder fistula, the flow of bile was considerably increased by the introduction of a ½ per cent solution of hydrochloric acid into the stomach Later, the same result was obtained by the simulated introduction of hydrochloric acid. The effect was slighter but sufficiently pronounced to demonstrate an influence of the cerebral cortex on the secretion of bile by the liver. In experiments carried out by Rickl, a similar flow of bile was produced by the introduc-

tion of sodium taurocholate or glychocholate into the blood stream. The stimulant used to excite the conditioned reflexes was the preparation for the injections or a certain sound. In investigations of the spleen, the author, working with Gorškov, made use of the subcutaneous displacement of the spleen. To produce an unconditioned reflex on the movements of the smooth musculature, a weak electrical stimulation of the lower extremities, just enough to cause pain, was used. If this was associated with a whistle, the whistle alone was sufficient later to cause the movements of the spleen.

Gas metabolism was studied by Olnjanskaja The basal metabolism was determined in a human subject. The man then performed muscular work for two minutes, a metronome being set in action beside him. After from six to fifteen of such sittings the beats of the metronome without muscular work were sufficient to drive the basal metabolism up to 100 per cent. Other findings showed that the conditioned reflex caused increased oxidation in the tissues, especially in the muscle tissue. Therefore a trophic action of the nervous system was proved.

In attempting to solve the second problem, the author with Ivanov conducted the following experiments

With careful exclusion of all "extraceptive" stimulations, that is, stimulations perceptible to the sense organs, water was introduced through a gastric fistula into the stomach of a dog which had been subjected to gastrostomy This caused a diuresis which could be measured as the urine was discharged from the ureters which had been made to open externally A simulated introduction of water was then carried out, that is, the water introduced through the gastrostomy was withdrawn completely after a few minutes. In spite of this withdrawal, diuresis occurred again and followed a curve similar in all respects to that observed when the water was allowed to remain in the stomach. Therefore the stimulation of the gastric mucous membrane had a conditioned reflex action on the renal secretion. The author terms such a stimulation "intraceptive" He reports also experiments demonstrating the existence of "muscle receptors," "glandular receptors," and especially "organ receptors"

All organs are supplied not only with centrifugal fibers through which they receive stimulation to activity from the nerve centers, but also centripetal connections along which they inform these centers of the status of their work

To the question whether every organ has its own localized, narrowly circumscribed centers in the brain or not, the author answers that there are no such centers. He believes that the cerebral cortex effects temporary connections between the various

estraceptive and intraceptive impul es as they are needed and passes these impulses on to the \$3 mpa theically innersated organ for which they are

The study of the internal mechanism of conditoned refer activity presented the greatest diff tioned terex activity presented the steaded con-culties. With Merjey and Berckmann the author the to show that denerration of one kidnes was some to show that occurrentees to one atomore, not ther abolishes the previously set up conditioned reflexes nor prevents the formation of new reflexes of that type The conclusion is dra a that the central usal segment of the reflex arc is produced by the humoral toute. It is thought that the centrifetal fimulation transmitted to the brain is projected onto an endocrate gland ( hich one is not known) onto an engocrine giano the one is no same and that the product of this gland acts pecifically

The autho discusses also recent experiments anch suggest a chemical action in transmissi n of t dates suggest a chemical action in transmissi n of the nerv us process a chemical cod fination or

The experiments and conclusions briefly respectively and pro ide an explanation for many pathological and therapeutic phenomena. In addition to the direct inconditi ned telleres which act on the vari ous organs the action of the innume abl con h tioned tell ac must always p pome in mind on it form of treatment that is at all protracted | [1] wel by the development of country ned reflexes This expla as the in a ld ton to the leta Is of the this exprains 1 m in a 10 tion to the recipion of the personal by of the ph) tetan on the patient i frequently of extraords pm; ittan on the patient; the patient of each nary importance in the outcome of a disease Cahill II P

hill it P The Modern Tr atm nt of Brain

Cabill calls attention to the o currence of asepti cannot sinus thrombo is extending to the tor ular venous sinus vironnou is extensing to tre tor user or each the cavernous sinus which may give nee to or even the vavermous stous watter may give nee to He then brieff the timen offen assussed the diagn als of brain abscess and outlines the treatment. He pref is to iscusses the dagn sis of brain ansects any outdoors too treatment. He pres is so trace the abscess along the pathway of afe tion from the of the not goest focus and when about mate form the or to not know the dura is found to confer the after a cavity at this point. He r mores a enter the at a savary at this point the r moves a cone of frain thang and open the capsule with the electrical kinds and then empties the abaccas and in electrical anne and men empores one mose troduces a Wosh r drain Leo VI Da Tia Laffitte II

Otte II Intr cranial in umator ! (I cuma in ) fulf I min is ! d

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For ten days his course at home was uneventful but A or cent ways this course at mother was uneventual out on December 27 he was returned to the hospital on bettemoer 27 he was returned to the nospital with parent and eraggeration of the reflexes on the with parents and cracker and of the senses of the bod). The spinal fluid was found the source a manometric pressure (Claude) of 11

principal of the property of the comments of t but has otherwise argumes have sammastion of air in the left frontal same to safe concerns or as in the sec course of the hand. Under local ancesthesia the cranium as opened and stylet passed into the pneumatocele The patient was discharged from the hospital And Patent was instituted from the mospital february 15 in apparently good health and when seen again later was still normal car again sate; was sent normal bollowing a review of various theories as to the

rotowang a terrest of various encoures as to the mechanism of pneumatoccle attention is called to the fact that in the author's case there was little in the fact that in the admits a case there was after the clinical findings to suggest such a complication as there had been no loss of spinal fluid or bleeding from the nose or ears paparently the bullet had been deflected so that it opened the inner wall of the been denested so that it opened the inner was or the left frontal sinus and the dissue over the bon) defect acted as a valve which permitted are to pass in but

#### Craig W Mck and kernohan J B MAR H W POOLE WD

Cerebral cysts encountered at operation may be Congenital inflammatory traumatic parasitic or neoplastic To the neur surgeon the most impo at and and comm a group are those the most important the most importan neoplasms. These has a been found associated will pra trail, all types of primary tumors of the brain Abo e the tento tum \ \ \ much farer () pe of CM containing tumor othiss tuation sthe meningiona

hich alv two have been seen ly the aut ors It was found that only the neoplastic cysts con satently conta n d xanthochronn fluid Wither CASI CONTAINED LESS BUILD THE WAS BY I d'ATTENDE LES BUILD THE WAS BY I D'ATTENDE LES BUILDES crass contained lear num it was n to instinct that in general the more ben gn the gh ma the toat in general the more ornigh the go ma time from it was to unde go to the degeneration.

Dec my ression and simple fra nake, re often Decempression and simple us nake to wice a large period of palliati n which all w ! a las r m se ra i cal proce iu e such as fart al o danage sub equent apprain as wer semeime of attacks our equent aspirate its wer sometimes.

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net so 1931 long the familiation of crisi op-ative procedures we e-sometimes so e crisi op-mo e length from a order to remove them com-The auth is report f urteen cases

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detailed | tological description is given | the san us types of tumor of the hypophy major ty of tumors of the hypophy safe adenomata major (y or tumors or the nylvopn) sale automoral.

11 s ne plasms occur at all ages but are most

Comm any soung ad its

The cilis [ the anten r | be of the hypogh) are of two chef types chromophobe i principal cells with very little cytoplasm and no granulations, and chromophile cells with a highly developed cytoplasm and many granulations. The latter are divided into basophile and cosmophile cells. Accordingly, there are chromophobe and chromophile adenomata and various secondary and intermediate groups.

There are also two forms of chromophobe adenomata—those with an intensely vacularized trabecular structure and those with an alcolar structure made up of smaller cells with a lymphoid appearance resembling the principal cells of the normal

hypophysis

Three groups of mixed adenomata are recognized those with cells resembling chromophile cells but with few or no acidophile granules, those with cells of the chromophobe type but containing distinctly acidophile granules at the periphery of the cyto plasmic body, and those with cells of a chromophobe type containing granules slightly stained by cosin

There is also a group with fetal cells, found particularly in the lateral part of the anterior lobe. The fetal cells are cylindrical cells with a dark cytoplasm arranged in bands and representing

vestiges of the embryonic hypophysis

Still another group of tumors are those made up of pregnancy cells which resemble the hyperplastic

cells of the hypophysis seen in pregnancy

Secondary lesions are quite frequently found in cases of adenoma of the hypophysis. They may be so extensive as to obliterate the tumor structure. The most common are hamorrhagic tooi, but there may be also foci of necrosis consisting of a pulpy mass containing crystals of fatty acids or cholesterin. One case of cystic degeneration has been reported.

It is generally believed that chromophile adenomata are the most frequent, but among the authors' forty one cases there were thirty two of chromophobe adenoma, twenty with clear cells, five with pregnancy cells, one of the fetal type, and one of an indeterminate type. There were two chromophile eosinophile adenomata, one basophile chromophile adenoma, and six adenomata of the intermediate or mixed type. It is possible that the predominance of the chromophobe form in surgical cases is due to the fact that this type of adenoma generally grows to a large size. Statistics showing a predominance of chromophile tumors were those of anatomists who found the tumors at autopsy, the tumors were generally small.

It is very difficult to differentiate between benigh and mahignant tumors of the hypophysis histologically. Some mahignant tumors show a distinctly epithehomatous structure with cubical or cylindrical cells not in the least resembling that of adenomata, but some do not show any histological evidences of mahignancy, in analogy to other tumors of endocrine glands, the typical example of which is metastatic goiter.

The article contains photomicrographs of the different types of tumors, some of which are colored Audres Goss Morgan, M D

Kornblum, K Deformation of the Sella Turcica in Tumors of the Middle Cranial Fossa im J Roentgenol, 1934, xxxi, 23

The changes seen in the sella turcica in roent-genograms of the skull in cases of brain tumors are classified by the author according to the location of the tumor as follows (1) intrasellar, (2) extrasellar, (3) sphenoidal bone. Kornblum discusses chiefly the changes in the sella produced by the parisellar tumors, those immediately adjacent to the sella in the middle fossa. These changes are found chiefly in the dorsum sellar, which shows considerable erosion while the posterior clinoids, although sometimes indistinct, are preserved. In some cases the anterior clinoids are also affected.

LEO M DAYMOFF, M D

Stevenson, I., and Echlin, F. The Nature and Origin of Some Tumors of the Cerebellum Medulloblastoma. Irch. Veurel. & Ps. chiat., 1934, 1881, 93

The authors describe six tumors confined to the ccrebellum which they believe arose from the granular layers. They think that the term "neuroblastomata" is more suitable for such tumors than the term "medulloblastomata," but because of the origin of the neoplasms they suggest calling them "granuloblastomata."

The article contains illustrations showing the variation in position of the granular layer at different ages. The granular layer at first appears on the outer surface of the leaflets and later migrates inward to the position it occupies in adult life. The outer granular layer is composed of round undifferentiated cells without processes which later become elongated as they reach the final internal granular layer. Such undifferentiated cells associated with mitotic figures and rapidly changing both their shape and position might easily be supposed to give rise to tumors.

In the first case reported, sections showed tumor cells apparently growing from the outer surface of the leaslets and separating them. In other parts of the cerebellum there appeared to be remnants of an external granular layer. The second tumor showed a similar arrangement of tumor cells growing from the external surface of the leaslets and pushing them apart The third tumor showed less stroma than the first two neoplasms and would ordinarily be considered a typical medulloblastoma In several places it appeared to be growing from the outer surface of the cerebellar leaflets. At one place in the cerebellum the typical appearance of a vestigial external granular layer could be seen. The cells of the fourth tumor strongly resembled those of the granular layer of the cerebellum The authors believe that this case was identical with the first two cases described, although no gross material was available for study Microscopic examination of the fifth tumor showed the internal granular layer of the cerebellar leaslet to be continuous with the tumor

tissue The neoplasm looked like a continuation of this granular layer. In the sixth case the tumor Sire y from the outer edge of the cerebollar leadets See y invariant outer rube of the television reasons and there was an external granular layer similar to that found in normal newborn infants

The authors emphasize that if medulloblasts occur in the nervous 55 stem there is no good reason who in the nervous sistem there is no good reason with they should be confined to the cerebellum or to the they should be comment to the executions of the fourth ventruele and produce tumors practicelly al ays in the cerebellum Furthermore practicenty at vars in the cerebeaum curticizatore the finding in medulloblastomatz of a few cells the mining in meaninonissimilate of a few cers which resemble either neuroblasts or spongroblasts is not sufficient evidence on which to base the theory that the cells of medulloblastomata are b potential that the cells of incommonatomata are o potential and capable of producing both neuroblasts and before the fine times described in the times described in the capable area from a second correlative time. propriorates monetain the camora describes in this article anse from a specific cerebellar struc three this would explain more readily why they are c naned so largely to the cerebellum c named so largery to the executions. About sup-posed origin from the external granular layer of the Posett trigin from the external grandlar layer of the cerebellum would explain the anding of cells resem cerevenum wound experim the annuals of tens accounting neuroblasts as this layer is p edominately conposed of neuroblasts. The differences seen in the posed of newcourses the concerned seen in the month development of the granular cells in man and the loger animals seems to warrant the assumption the royal annual secure to warrant the assumption that the cells in the reported tumors may vary in that the cons in the reported tumors may vary in size and staining properties and still be granule cells The color and tendency toward rosette formation 1 oc cour and tendently toward reserve formation is shared by the granular layer of the cerebellum as well as by meduloblastomata

These signs have the same diagnostic importance these signs have the same diagnostic importance in cases of infratenional lessons of the posterior fossa as deviations of the third and lateral vent described in as deviations or rue visit and initial vent rues in cases of tumor of the cerebral hemispheres. If the tumor is large deviation of the aqueduct is accompaned by blocking of the fourth ventucle and the panied by mocking of the nontri venture and one signs of median and lateral hydrocephalus co exist signs of mentag and natural my doctrinates to each II the tumor is smaller, the ventricular 5 Mem 16 names permeable and a large hy drocephalus may or The sign of deviation of the aqueduct is of great

Ane sign of deviation of the squeedox is of Siesalue in cases of tumor of the expelloponine angle value in cases of tumor of the verested political angular method in the constitution of the same angular method in the case of near incompacts symptoms arese tumors are are opening mistaken for cerebellar tumors an error hich may be confirmed by centriculograms if the are made only with air lodoventriculograms it they are made buy with an convenient without other proved that observe a percurposate who are the findings hitherto considered almost pathognoom c of ce cheffar tumors may be caused also by tum s of the third and fourth ventrules cerebellopoutne angle pedurcles pons and medulia and by arach angue Pengunus Pous and menduda and or araca modells. Moreover this method provides the me notatis storeover this method provings we me dum for establishing the mechanism of b lateral hydrocephalus roentgenologically. The sign of de availustements aven genomerous and bound ven de sous aven de sample bulateral his decephatics and dound the sous aven de sample bulateral his decephatics are easied his are easied his decephatics. any the cause of a supple beautiful in developments as feecaled by air can be demonstrated with exact ness by Balado s iodos entriculography

#### RO ERT ZOLLINGER 'U D

the Post which ventral as a Sign of Topia used a disad of Fos a lodo entriculography (1) and the fost of the fost

In 1930 Carillo after using Balado's method of iodoventriculography first described the diagnostic iogoventricumgraphy and deviation of the aqueduct of agan or constructed as the second or the association of the association of the association of the association of the second of t and cerebellopout ne tumor. In this article in confirms the importance of sentriculog apply with opaque substances and epo ts five new ca es flour or celebellar hemisphere) which were controlled by cereveuer neunspaces, was an were commonce of autops. All of the patients were first seen in the autops) Aut or the patients were may seem in the stage of three of them only a decompression was ca es or tirce or them only a decompression was possible. The cerebellar tumor and one acoustic neurofibroms were partially removed. The devia ton produced by the cerebellopont ne tumors was tion produced by the estevenoyout me control new limited almost exclusively to the aqueduct leaving the fourth ventrele in 5 th and in the majority of the source ventricie in ; in and in cae majority is casses incompletely filled. The cerebellar tumor pro cases incompletely med the ceremonal future produced a displacement involving not only the aque duct but also the fourth ventrule and the cists na which were completely filled. Another differ at at which were completely mice amount other at all ng feature in cases of ce obeliar tumor is unilateral occlus on of the f ramen of Luschka

#### Ŭ È Morse U D SYMPATHETIC NERVES

Slaw R C Phenomena 1 / 5 g 933 x The Sympathetic System and P in The author reports conclus ns drawn from cer

fain experimental and cl n cal observations regard neg the affe ent ass c ations of the sympathetic ing the ane ent ass cations of the sympathic system. The observations were to elated with the system the observations were considered in color results of sympathectomy for severe neurons. raigic conditions in six cass. These cases a ere po ted Shaw summar es h s conclusions as fol

The ympathetic fibe's may aduct after to stimuli sub-erving common sensat in after the esti pation of the somati inners it n

This func the same of the same timers in a line inner to appears to devel a same in a line inner to a li the sp nal nerve supply

in certain types of atra table new alk a s) mpathetic fibers con ev impulses of pain wi ch sympathetic moers con eventuates or pain and are distinct from the conditions of para conveyed by the sp nal system

y the sp nat system
3 Th sympathetic syst m acts as a contr l on the somatic sensors the sell ids and the remo al f the somatic sensor; in ear its sea the remo at this influence is followed by a temporary increase.

4 The anatomical impact tie path ay a the 4 Ine anatomical ympaco de pato ay a constitue of the contains par l'accion fibe type I neuralgic pain Su 8 cal ablat n of the pa p nal gangla

5 Su g cat abiat n of the pa p has gauge able neural g a through temoval of the mechanism of pain Periarterial sympathectomy will certainly relieve pain in similar conditions, and it is suggested that the operation produces its results by the induction of an inhibitory phase through the radiation of molecular shock throughout the sympathetic neural circuit ROBERT ZOLLINGER, M.D.

Lewis, D, and Geschickter, C F Tumors of the Sympathetic Nervous System Neuroblastoma, Paraganglioma, Ganglioneuroma 1rch Surg, 1934, NVIII, 10

The authors review tumors of the sympathetic nervous system, including 103 tumors studied in the

Johns Hopkins Hospital, Baltimore

Thirty-three of the 40 neuroblastomata reported occurred in the medulla of the suprarenal gland or the sympathetic ganglia adjacent to the medulla About one-half of them developed in children under three years of age. The most common symptoms were fever, an abdominal mass, anæmia, and vomiting from pressure on abdominal viscera. The clinical picture of appendicitis was simulated in 5 cases. Multiple metastasis to bone occurred in 8. In the latter the clinical course was rapidly downward and in the majority death occurred within two months. Although these tumors may soften and decrease in size following roentgen-ray and radium therapy, irradiation seemed to hasten metastasis. The results of surgical therapy were unfavorable.

Tifty-two paraganghomata were studied by the authors. These are divided into 3 groups (1) those arising from the carotid body, (2) those arising from the medulla of the suprarenal gland, and (3) the argentassin or carcinoid tumors of the gastro-

intestinal tract. The authors have found the following factors of importance in the diagnosis of paraganghoma of the carotid body. (1) the position of the tumor at the bifurcation of the carotid artery, (2) long duration of the symptoms and slow growth, (3) an expansile pulsation, bruit, and thrill, suggestive of aneurism with absence of other changes in spite of long duration of the tumor, (4) oval shape and lateral mobility of the swelling, (5) a tendency of the growth to bulge into the phary in without causing ulcerations of the mucous membrane, and (6) tailure of the tumor to respond to irradiation

Like the tumors of the carotid body, most of the paraganghomata of the suprarenal gland occurred in adult life. Hypertension, hypotension, and vasomotor instability were the most frequently noted clinical symptoms. Urinary symptoms may develop with deformity of the renal pelvis.

The argentaffin tumors of the gastro-intestinal tract occurred twice as frequently in the appendix as in the small intestine, but were rare in the stomach and large intestine. The majority were benign and ran a slow course. About 20 per cent of these tumors, especially those involving the small intestine, undergo malignant changes.

The authors add 8 cases of ganglioneuroma to the 103 cases previously reported. Although these tumors are usually benign and solitary, 3 of those in their cases were malignant. The symptoms are due to pressure and depend upon the location of the tumor. In 1 of the authors' cases a very small ganglioneuroma was found on the auditory nerve. Two of the malignant cases are reported in detail

ROBERT ZOLLINGER, M D

# SURGERY OF THE CHEST

## CHEST WALL AND BREAST

Matting A Contribut in to tile Etiology and Pathogenesis of Bleeding Alphe in Catholic etions/normatics della manufilla una Eminute in the state of the sta

The author reports a rather unusual case of bleed ing a pple in the male. The patient was a man forty mammella san ing a pipe in me mare the partent was a men outy five years old who eighteen months before his ad are posts our and regarded months before an account in account of small nodule in the right breast slight or account of small nodule in the right breast slight or account of the works would and the mark slight or account of the works would and the mark slight or account of the works would and the mark slight or account of the works would and the mark slight or account of the works would are the works when the works were account of the works were account or account of the works were account of the works were account of the works were account or account of the works were account of the works were account of the works were account or account of the works were account or account of the works were account of the works were account or account of the works were account of the works were account or account of the works were account or account of the works were account of Argement of the right modified and the outflow of a few drops of a cloudy ted fluid after pressure on the lodule There was no spontaneous pain but the

reast was somewhat tender on pressure. The left reast us somewhat tender on pressure de nate entirely normal. A few day latter the nate same dead panel and same and a few day latter the mass an pressure for three days at the This could be a few days at the could of which the could be a few days at the could be in persisted for timer trays at the end of which is a few drops of pus flowed from the n pple the and masses then disappeared. Fight

optoms and dissocs their disappreased. Assat this later bleeding from the mpple occurred for and thereafter recurred approximately Under local anasthesia the mpple region was re

Sected Microscopic examination revealed the pressected discressopic examination revealed the presence of a subacute maxitus inflammation of the tince of a sound the masteus innamiation of the milk ducts and papilloma formation within the milk ducts

Vattina reviews the literature on bleeding supple Various reviews the increasure on meconic impro-briefly and discusses some of the theories regarding the pathogenesis and etiology of the condition in the pariogenesis and chorogy of the common and the male bleeding from the nipple is most often associaled with a mal gnant lesson of the breast but may be caused also b) bengin lesions. The phenom enon is a manifestation of many disturbances in the breast and d es not constitute a clinical entity A. Louis Ros M D

TRACHEA, LUNGS AND PLEURA

Amberson J B J and Riggins II Mel. Lipionberson B J and Reggins II Vet Lipio-dol In Bronchography Ita Dhadyaniag s Dangers and Lees Am J R (to 193)

After be achography retained input 1 is grad unity ducharged through the bronch Direct above using discoursed through the oroncus Direct acsorption turongs are thing occupy only to a sugar degree if at all A slight crudative reaction usually degree of at an assessment execution usually long occurs about deposits of liptodol in the healthy long but this seems not to be harmful chincally transidation of orders duid may be considerable transquarion or courses using may be considerable and may account for the rapidly developing room genographic lobar opacity reported by some roent

Lipsedol may be estained in the pulmonary Lipingon may be crained in the pulmonary alscoli for days months or years. The persisting density may impair the value of senal ocnigen

Disadvantages and dangers pecul ar to the enco thyroid and transfered method of injection in clude the escape of oil into and its indefinite reten tion in the cervical and mediastical tissues the nou in the ectyrist and mechanical resource the possibility of infection of these fissues by escaping possibility of infection of these dissues by cscaping bionchial discharges and pain dysphonia adema of the glottis di sphagra subcutaneous emphi sema and air embolism

nu au entoquisiq Jodism is due chiefly to swallowing of the oil and the absorption of todate through the intestine. As the absorption of source through the infectine as a rule this can be avoided by injecting the oil care a fine tops can be avoided by injecting the on care fally in small amounts adopting measures to pretony in sman summers anything measures to pre-After bronchographs by posture and the adminis tration of a brist saline purge

fation of a unsa, saune purse In cases of infectious disease mainly tuberculosis And acute or chronic supportante conditions atus acute ut attoute supputative continuous dissemination of aggravation may be caused by suchare second come ippedol injections The authors record some upocoo mections the authors record some instances of serious results and fatal ties in such instances of serious feature and talastics in successes and discuss the reasons for such results They cite also complications showing the danger of the niratracheal injection of adized oil in ca es the intratistatest injection of respirat ty function men inpantinent or carmac or resouractly uncounted in conclusion they describe the selection of cases for the injection of iodized oil and the techn que

Plant S A Peculiar VI bile Ar a of Increased Resonance in Pneumothorax (Sop a un internacional principal supplication of the suppli Avesumente in entramotionax (Nop a un p ; c is are di perionesi moto le nel p m t ac )

P i di Rom 933 xi see prat 19 6 m t ac )

In every case of pneumothorax there is an area f Accessed resonance due to the presence of gas in the pleural cavity. In cases in which the pleura is fee from adhesions this area may shift about according to the laws of aerodynamics so that the at invariable occup es the most elevated portion of the pleural

occup es the most elevated porting of the pieces (cavit). The form of this area varies from ease t case according to the local disease but with the patient in the horizontal supine posit on it is fre patient in the nonzontal supine position it is no quently bell shaped. The dimensions of the ar 1 of received resonance are also extremely sarable depending on the amount of sta present the dis-tantishity and morability of the adjacent pleura tensionity and movementy of the adjace and the elastic tension of the lung its ue

Most of these facts may be demonstrated by ph)s cal examination and are easily shown by \ ray pnys cas examination and are cashly shown by a second on the most life area ricessed resonance is of importance in the mistant area. of early impited pneumothorax and in the deter mination of the course of pneumothorax therapy

LOUIS ROSE M'D

Marvin, H P The Importance of Bronchoscopy in Bronchiectasis in Int Med, 1934, vii, 903

From a review of 200 cases of bronchiectasis Marvin concludes that the diagnosis of this condition is made best by bronchoscopy supplemented by X-ray studies following the injection of lipiodol. He states that bronchoscopy is also of therapeutic value Bronchoscopic aspiration has proved to be the most satisfactory method of treating cases in which a pneumonitis has developed about the bronchial dilatations. In such cases there is a tendency toward abscess formation because of the retained secretions. In bronchiectasis with persistent uncontrolled hæmorrhage the bronchoscopic application of silver nitrate to the bleeding area has been beneficial.

Two types of postural drainage apparatus are described and shown in illustrations

FRANKLIN E WALTON, M D

Warner, W. P., and Graham, D. Lobar Atelectasis as a Cause of Triangular Roentgen Shadows in Bronchiectasis. Arch. Int. Med., 1933, lii, 888

The authors believe that triangular basal shadows seen in plain roentgenograms of the chest are diagnostic of bronchiectasis, but that the lesion should be further investigated by means of roentgenograms made with lipiodol

In experiments on dogs a similar shadow was produced when atelectasis of the basal lobe was caused by obliteration of a basal bronchus by the introduction of a tampon. The authors conclude that mechanical plugging of the basal bronchi by ædema of the bronchial walls is sufficient to produce such an atelectasis with the formation of a triangular shadow

The literature is reviewed briefly

FRANKLIN E WALTON, M D

Stuhl, Camendron, and Marques Roentgen-Ray Observations in Fifty Cases of Pleural Calcification (Sur les calcifications pleurales à propos de cinquante observations radiologiques) Arch med-chir de l'appar respir, 1933, viii, 413

In thirty-two of the fifty cases of pleural calcification reviewed by the authors the deposits of calcium occurred after injuries (in fourteen a projectile was still present in the thorax) and were directly related to hæmothorax. In twelve, they followed serofibrinous pleurisy, in two, empyema, and in three, therapeutic pneumothorax. In two, the cause was not determined

In every instance the deposits were discovered by roentgen-ray examination. Some of them were surprisingly extensive, covering nearly the entire pleural surface. They produced a dense shadow or appeared as scattered granules. Lateral roentgenograms may be necessary to determine the site of a deposit, and exploratory puncture may be required to distinguish it from pleurisy.

The various shadows produced by the calcium deposits are shown by sixteen roentgenograms, and the French literature on pleural calcification is reviewed

MARSH W POOLE, M D.

#### ŒSOPHAGUS AND MEDIASTINUM

Collins, E. N. Lesions of the Esophagus Med Clin North 1m, 1934, Nn, 1945

Collins reports five cases of lesions of the œsophagus which either emphasize certain features in diagnosis or illustrate the rarer œsophageal lesions

Case I was that of a man sixty-five years old who complained of a continuous grinding pain in the region of the lower sternum and the upper epigastrium and had lost 15 lb. The Ewald test showed free acid 95, total acid 115. Roentgen examination revealed a filling defect at the cardiac orifice suggesting a carcinoma. One month later roentgen examination in the Trendelenburg position revealed a hiatus hernia which reduced itself in all other positions. Fixation of the stomach was done together with posterior gastro-enterostomy for duodenal ulcer. Six months later an obstruction developed in the middle of the coophagus and an extensive carcinoma was shown by X-ray examination.

Case 2 was that of a man aged sixty years who had difficulty in swallowing Examination disclosed a marked microcytic anæmia and absence of free acid in the stomach (Esophagoscopic and roentgen examinations revealed no abnormalities. The condition improved when the anæmia was treated

Case 3 was that of a man forty years old who had a chronic productive cough and dysphagia and had lost 30 lb. The sputum was purulent and foul. The patient was emaciated, and his temperature was about 100 degrees F. Roentgen examination revealed a lung abscess with cavity formation and partial obstruction of the esophagis in the region of the clavicles. Displacement of the esophagis to the right suggested a traction diverticulum. The obstruction gradually became complete and gastrostomy was necessary. The author states that a traction diverticulum due to an adjacent inflammatory process is unusual.

Case 4 was that of a man aged fifty-four years who had lost weight and strength and had comited frequently. Roentgen examination revealed a carcinoma of the stomach obstructing the lower end of the esophagus.

Case 5 was that of a man fifty-nine years old who complained of chronic cough, dysphagia, and hoarseness Roentgen examination revealed a large globular diverticulum at the lower end of the esophagus on the left side. The author believes

that this was a pulsion diverticulum of congenital origin J Daniel Willems, M D

Jackson, C, and Jackson, C L Pulmonary Symptoms Due to Œsophageal Disease 1rch Ololaryngol, 1933, xvm, 731

The authors point out nine ways by which pulmonary symptoms may be produced by pathological conditions in the œsophagus and hypopharynx These are the following

I Inspiration of infected food, blood, or oral, pharyngeal, or nasal secretions which overflow into

INTERNATIONAL ABSTRACT OF SURGERA the latinx because they cannot pass through a

stenosed resophagus

2 Direct extension up and over the larg ngeal run pathological proce ees originat ng in the as phageal or hypophary ngeal wall J. Direct extension through the phago racheal wall of the vill of a fronchu u ally the I ft main bronchus

te main pronunts

4. Direct extension of the ascillageal disc se to the pleura or through the pleura into the Jaren chyma of the lung

5. Direct extension of the exsophageal lesion to the mediastinum and thence to the lung

ne mediastitudi and mente to the lung

6. Extension of the exophageal disease by way of the blood stream or lymph channels

Compressive stenosis of the trachea or bron chus without pathological in hemen of the tracheobronchial wall by bulks a sophageal lesions traineoutonicinai wan by buildy traophiageas sessons glandular metastases or fore gn b dies lodged in

8 Lary ngeal paralysis caused by pressure upon or involement of the recurrent lary ngeal nerve by a lesson such as a carenoma Reflex symptoms especially cough excited by disease limited to the asophagus

In some cases the pulmonary symptoms pre in some cases the pulmonary symptoms pre dominate over the causative excephageal symptoms to such an extent that the latter may be entirely disregarded by both the patient and the physi

The characteristic pulmonary symptom of ceso The characteristic pulmonary symptom or ceso phageal disease is sudden waking with cougling prageat disease is sudden waxing with cougring choking and strangling. The patient believes that the source of the cough is altogether lan agotracheal and does not realize that the accumulated screttons ann core not reasses use or accumulated servetons have overflowed into the lary nr. This overflow and th 3 5) imptom may occur in health but they are

the 3-53 mprom may occur in nearth out they are much more marked when Isophageal d amage is updates of securities in the pyriform sinus as seen in the large great mental and as seen in the large great mental mental tearly as seen in the leaf pigear in r s an important earns sign of exophageal stenosis with possibly impending pulmonary complications

In conclusion the authors state that in the search in concussion top authors state that in the state of cough an examination of the a sophagus should be made with the entgen as

Hindse Velsen S Pepile Ul er of the Osophago

Peptic ulcer of the croophagu is usually an solated d gesti n ) Il p Tid

tenon It occurs in the lower third of the assophagus REMORE ALL OUTLIES OF THE FOREST TO A LOS OF THE SECOND At varies in size from that or a pea to a res on measuring from \$ 10 form And involving the infire cir. conference of the exophagus in a gridle l Le fashi n Euler of the duodenum but in contrast to Like dicer of the deduction out of contrast of the stomach it occurs in a frequently in mn than in women The author iscusses ! ett logy and pathogenesis in detail

The most characteristic somition is the pain This is usually localized n the upper part of the

epigastrium behind the sternum and may extend to the scapular loming regurgitation and to the scapular someting regulation and hamatenesss are also sery common Because of he discussion are also very common average or the absence of typical symptom, the discusses and differential diagn sis may be difficult. Hungo copie omercutas magu as may oc mount a more co examination discloses a nicle a filling defect Seen ses of varying degree The niche may be due to

iss of it ue or folis of the microis membrane bote the steroses reschageal dilatations may toose the stenoses test phageat matations may occasionally be observed. I definite diagnos s may be made by (xsophagoscop)

In conservative treatment as in gastine ulcer the use of a liquid diet is to be considered. In addi toon conservative treatment should include the non conservance accounted should measure an administration of alkalies in powder or liquid form auministration of alkalies in powder or infino form the administration of olive of several (mes daily and painting of the ulter with cocaine and a 5 to and painting of the nicer with cocaine and a 3 to 10 per cent solution of silver nitrate once or twice seedly through the esophagoscope or the insuffia

accasy enrough the ecophagoscope of the mountain it, a of bismuth subn trate. Spasms require the tt a be plantill about trace opening require the administration of beliadonia and sometimes the use of morphine The author recommends also eum) drin and papaverin

in your and paparam
As surgical treatment gastrostomy to exclude the ulcer comes up for consideration. The treatment of hemorrhage requires strict regulation of the diet bed test and symptomatic measures in perforation beu resc and s) improved in measures an periodeton, the treatment indicated depends on the se of the besign The operative treatment recommended f r stenois is the Rossing procedure antethorace anastomosis between the exophagus and stomach of the sternum

by the formatt n of a skin tube along the first part The pr gnosis of peptic ulcer of the ecsophagus must be considered grave. Of the se entry patients th se cases a c re lewed by the author only the second are still alive. The chief danger is per foration which is usually fatal

ing brig ten R Espe imental in tigati na o ) Suture of the Osoph gus Mier Res ett

Unt chunk n ht d ht d Laga d

The experiments report d vere performed on cats In the f st five animals cct n f th rec esophagus was f ll wed b em of the innous sutu es of e tgut e em le sut es ( ). innous suit es of c igut c e m le n th muc sa the kn ts being pla e I in the mus ul r oat

Mer these unsue e stul perm ats the auth r employed only the finest asselined the high was the lum n Se en allit nal ! one i cm of the cert of portin and in set f m to s car of the th cic po to n of the sopla mat rial f om Rus were resected. In two of these is tioned 3 cm above the last h ag n the abort po ce tain

tion was in greated nto the t ma h and if sophagus as see periphe al po ti n mastomosed to the stom ch erain nihs after the operation the anim Is use e

killed and the sites of resection subjected to micro-

scopic study

In no animal was there any postoperative infection. One cat, which was subjected to resection between the bifurcation and the cardia one hundred and twelve days before a second operation—an esophagogastrostomy—died of purulent pleurisy ten days after the second operation. In this case the first operation impaired the circulation to such an extent that the occurrence of healing a second time in the immediate vicinity of the resection could not have been expected. The mucous membranes showed marked varicose veins

In all cases a continuous circular suture was made in the mucosa Microscopic examination showed that the silk sutures in the muscular coat were not absorbed, whereas those in the mucosa were elim-

ınated

The resection of 5 cm of the esophagus of the cat, which is from 16 to 17 cm long, is equivalent to the resection of 8 cm of the human esophagus, which is about 25 cm long. The author believes that with the technique described and a circular su-

ture, 8 cm of the human esophagus can be resected for beginning carcinoma Koritzinsky (Z)

Aguirre, R. C., and Araoz, J. L. Paroxysmal Tachypnœa of Decubitus in Tuberculous Adenomediastinitis (Taquipnea paroxistica de decubito por adenomediastinitis tuberculosa) Semana med, 1933, vl., 1863

The case reported was that of a girl nine years old In the erect position there was no dyspnæa and respiration was normal, but a few seconds after the patient assumed the horizontal position a sudden severe paroxysm of tachypnæa developed and respiration reached the enormous rate of from 120 to 150 per minute. The horizontal position could be maintained for only a short time. When the erect position was again assumed the paroxysm ceased as suddenly as it began

A diagnosis of tuberculous adenomediastinitis was made principally on the basis of the roentgen findings. The authors concluded that the horizontal position produced pressure on, and irritation of, the pneumogastric nerves. William R. Meeker, M.D.

### SURGERY OF THE ABDOMEN ABDOMINAL WALL AND PERITONEUM

Velene, p. Mones p. L. Colp. P. Crace R. Abdoon had Would Hop C. G. Grace R. Abdoon had Would Symposium 1 \* 50 g.

MELENEY and HOWES review 55 cases of disruption of abdominal wounds with profits on of the tion of addominal nounds with protrus on or the second witch occurred in the I resp) tenan Hospital Ascera vaica occurred in the 1 respitement 100spiration of eight 3 cars. The incidence ven 101a in a period of cight years the incidence of this complication in all cases of abdominal opera or this toispurction in an eases of abdominal opera bod was about 1 per cent. It fit of the cases were carefully analyzed. Disruption occurred most comments of the cases were considered to the cases were cases. carriuny analyzed Disruption occurred those commonly in patients over forty years of age and was nom) in patients over forty years of age and was typic as common n males as in females. Only ta twice as common n maies as in remairs of the 50 patients were under forth years of age of the 30 patients were under total years of age. courteen of the cases here clean 20 were con familiated and 8 e c infected. The disruptive taminated and o e interior line disruptive force was an undue activity in 14 vomiting in 38 a constitut 30 quistation in 38 and picconstitut 39 and picconstitut 30 and picconstitut couga in 20 distration in 30 and increase in 10. The disruption occurred in an upper ve tical incision Ane disraption octured in an upper ve ucai meraton in 33 cases a middle vertical incisson in 4 a lower in 33 cases a minute vertical incision in 4 a ionece entited incision in 4 an upper oblique incision in 7 and an upper transverse incision in used in 10 cases. The nounds were closed by con used in 10 cases. The nounds were closed by eva tinuous sutures of plain categor in 4 cases, sutures of pla n and chromic catent in a cases continuous Pag is and column catgut in 42 cases communication of chromic catgut in 42 cases an interrupted sutures of cutomic catgut in 42 cases an interrupted suture of car in c caigut in 1 case 2 continuous suture of sill in case Circular retention sutures in sature or such the Case Curturar retention surfaces in 4 and lateral surfaces with buttons or tubes in 17 4 and lateral sucures w to voltions or tuves in 17 cases. The operations followed by wound disrupcases the operations tomowed by wound disrup-tion most frequently were choice stectom; and gastro ente ostomy gasino ente ostomy Ane mortality was 44 pe cent The greatest number of disrupt ons occurred cent Ane greatest animoter of instructions occurred between the se enth and the tenth day after the

D scuption of the wound is due to too rap d ab D suppon of the wound is age to two top a so sorphon of the sutures approximating the would southhou or the surfaces approximating the wound edges before healing of the wound has occurred. If enges occurre meaning of the would has occurred it.

Absorbable sultures are used absorbit n of the absoroable sutures are used absorption of the statute is favored by crudat on into the ground and the presence of m cro o gan ms the presence of m croosen his the strength of sutures and the holding powe of the strength of autures and the postular point of the first feel after the operation 700 process of the first feel after the operation 700 process of the proces the arse a same the operat a five process of repair does not begin immediately. There is always The thale legan ones not organ numeronates, and a lag period which values in length according to the a lag penoa naica varies in iengua according to the pat ent's condition. Under ideal conditions fibro patent's concusuon under meat cond tions note blasts begin to appear and lay down their fibrils blasts degin to appear and lay down their shinls after f c5 c5t hours. Healing begins rapidly but slong and the end f akels or fee days. In slons down at the end ta week or ten days in complete after fourteen

is Meleney and Hones believe that sill is better suffere material than categories clear cases the octtor

is associated with less exudation and less their is associated with tess caudation and tess natural on bood of infection and there is little or no diminut on nood of injection and there is notice or no common on in its tens le strength. Sit should not be used in in its reus to strongen of the smoother not we used in infected or contaminated cases. The length of time interieu or contaminatro cases and tengtu or time that calgut sutures will resist digestion s difficult to determine Retention sulures are apt not to hold to understander Actention sulures are aproved to note the peritoneum and have a tendency to cut the the pentoneum and nave a tendency to cut the abdominal wall. For maintenance of approximation

accommand want for maintenance of approximate in of the peritoneum and posterior sheath. Melone, of the peritopeum and Posterior succars victores and Hoses recommend a continuous of interrupted and trongs recommend a commonous or interropted statute of the mattress type re inf red by an in siture or the matrices type re un new to an in-terrupted or continuous over and over suture of terrupted or continuous over annover surure of fine chromic catest. They believe that a continuous nge chromic caigut anes beneve toat a continuous suture alone is particularly poor. The tensile strength sume amore is paracularly poor and tensing or custom of the content of the boding on to o caromic categor is greater than the bording speer of any tissue likely to be sutured with t power of any tissue meets to be surfaced that target sizes cause more extigation and in re rapid apsolbtion To cases in which a transferse incision realist sixes cause more example on an in the telescope of the sixes cause more example on the telescope of the sixes cause more example on the telescope of the sixes cause more example of the sixes of ausorption to cases in which a transferse incision is made wound disruption is less frequent probably is made wound disruption is less frequent probable because there is less danger that omental tags will because there is less transfer that omental takes were get bet, een the suture lines and there is less tensi n

n the suture Corp reports a study of 6 cases of n und rupture among 750 consecutive ( paroom es performed from our 15 Mars Hospital ) by Oct. 15 Mars Hospital ( paroom es performed from our 15 Mars Hospital ) cases from private practice. The incidence of ruptu e was from private practice. The incidence of ruprice was a far each to makes and 0.75 per cent in finales and 0.75 per cent in finales in the fourth and fifth decades of his control of the fourth and fifth decades of his control of the first of it was against in the tourin and inth decades of the underlying less or sponsible for the disrupt on An entire gring real or sponsione to one unsuperor as a malignant tumor in 18 per cent of the cases was a mangraph tumor in 20 per cent of the cases, of the bile passages in 3 per againmator) disease of the bue passages in 3 per cent a gynecological condition such as fibro ds in tent a 83 neconogical condition such as more as in 19 per cent acute appendictts in 19 per cent and 19 per cent acute appendicus in 19 per cent acute some other condit on such as diserticultus of the

Some other condition such as differentiables of fever of unde st moid streptococcus peritoritis or fever of under term and origin in 1 pe cent in 316 cases of exercisional the incidence of evolution for the incidence of avoid disruption was a constant to the incidence of sound disruption was a constant to the incidence of 2.2 Per cent Colp believes that careful p c opera the care of cachect c patients may dec case the inc dence of wound disruption ic dence of wound distupo a Middine incisions are m st apt to rupture. The

fact that there was no instance of rupture of a m d here epigastine mersion in the ases ferr need 1 the epigastne meason in the ascs sever we astrophyte by Colp to the use f a special techn que attributed by Colp to the use a special reconstruction for the closure of per cent a special reconstruction for the lines as made for easterdandeal ulcer and all of those made for this construction of the schemoster of the schem of the stomach. This consisted of the care nome or the stomach. This consistent of the stomach and should be stomach. The consistent of the stomach and should be stomach. And should be stomach and should be stomach. were eet in place until the lourteenth day face most frequently u ed incisions e e those made parallel with the lines alba through the rectus

parallel with the lines along through the rectanguage. The most common approach to the uppe autous we must commun approach to the upper part of the tectus muscle. The incidence of wound rupor the rectus mostle. The incidence of wound a ture in this type of incision was 2.2 per cent

the lower rectus muscle-splitting incisions it was 054 per cent. Of 20 cases in which a para-umbilical rectus muscle-splitting incision was made, disruption occurred in 2

In the closure of the abdominal incisions the pertoneum was closed with a continuous suture of chromic catgut, the fascia, by interrupted sutures of chromic catgut, and the skin, by a continuous suture of silk, an interrupted suture of silk or silk-

worm gut, or by pincettes

Disruption occurred between the second and the eleventh days after the operation. It seemed to be most frequent on the seventh day, and to occur usually after removal of the skin sutures. While Colp doubts that the removal of the skin sutures had a causal relationship to the disruption, he believes it advisable to leave the skin sutures undisturbed for a longer period of time in the cases of patients with cachevia, weakness, anæmia, distention, or meteorism

In cases in which wound closure is impossible because of infection, it is probably better to leave the entire wound open rather than merely the skin Colp packs the wound and leaves it undisturbed for from ten to twelve days. When the pack is removed the granulations are usually so healthy that the wound edges can be approximated with adhesive tape. Healing almost invariably follows. This procedure was used in 23 cases without any untoward results. Abdominal binders are probably of value in preventing evisceration.

In cases with drainage the incidence of wound rupture was 1 22 per cent, and in cases without

drainage it was o 84 per cent

Wound rupture should be suspected when the dressing which has previously been dry suddenly becomes stained with a bloody serous discharge

The treatment preferred by Colp consists of packing the wound or secondary suture of all layers with drainage The tampon method is the procedure of choice in infected cases Healing requires an average of thirty-seven days. In 19 cases in which the tampon method was used the mortality was 32 per cent Of 11 patients traced, 7 subsequently developed a hernia Secondary suture is indicated in clean cases with evisceration but without peritonitis Of 10 patients treated by this method, 8 recovered and 2 died. The secondary suture was performed with interrupted through-and-through heavy silk sutures over a drainage pack. In the 8 cases in which recovery resulted there were no untoward complications The period of hospitalization averaged forty-six days

The cause of death as determined by 5 postmortem examinations was diffuse peritonitis in 4 cases and hæmorrhage from the gall-bladder bed with dilatation of the stomach in 1 case The mortality in the series was about 28 per cent

Grace reports an analysis of 46 cases of abdominal wound disruption from the First Surgical Division of Bellevue Hospital, New York Protrusion of the viscera occurred in 36 The type of incision

used was as follows upper split right rectus, 28 cases, upper split left rectus, 8 cases, median epigastric, 3 cases, lower split rectus, 3 cases, reversed Kammerer, 2 cases, transverse, 1 case, and median suprapubic, 1 case Thirty-nine of the 46 disruptions occurred in upper abdominal incisions. In all cases 1 continuous suture of chromic catgut was used Silk or silkworm gut was employed only for skin apposition. No retention sutures were used

The operation was performed for carcinoma in 10 cases, chronic ulcer of the stomach or duodenum in 8 cases, gall-bladder disease and appendicitis in 7 cases each, stab-wounds of the abdomen and perforated ulcer of the stomach or duodenum in 3 cases each, chronic intestinal obstruction in 2 cases, and ruptured typhoid ulcer, ruptured spleen, gunshot wound of the abdomen, abscess of the liver, tuberculosis of the peritoneum, and an undiagnosed condition in I case each. The postoperative complications actively favoring the disruption were infection and coughing in 17 cases each, vomiting in 9 cases, distention or obstruction and hiccough in 4 cases each, retching at lavage and difficulty in the suturing in 2 cases each, and the patient's getting out of bed and an unknown cause in 3 cases each The largest number of the disruptions occurred on the seventh day Iwenty-seven occurred between the seventh and tenth days inclusive

The sudden discharge of sanguineous fluid from the wound is indicative of wound rupture. The next sign of importance is pain. In 30 of the cases reviewed the disruption was treated by secondary suture and in 16 by strapping or packing or both Secondary suture consisted of through-and-through silkworm-gut or silk sutures Strapping with or without packing was used most often in the cases in which the disruption occurred slowly and, when it was discovered, the extruded contents were already adherent to the deeper wound tissues, also in severely infected wounds. In only 2 of the cases requiring secondary suture did the wound fail to heal Both of these were controlled by strapping Of the 28 patients who recovered from the complication, the majority developed a postoperative hernia. In the 36 cases with protrusion of the viscera there were 15 deaths, a mortality of 41 per cent, and in the 10 cases without protrusion of the viscera there were 3 deaths, a mortality of 30 per cent The total mortality was 39 per cent. In 28 cases treated by secondary suture there were 11 deaths, and in 18 cases treated by strapping and packing there were 7 deaths

White reports on 30 cases of disruption of abdominal wounds in the Roosevelt Hospital, New York, in which there was a mortality of 53 per cent Thirteen of the 30 patients were over fifty-five years of age, and 5 were suffering from malignant disease A median incision was made in 2 cases, muscle retraction was done in 6, and the fibers of the rectus muscle were split in 22 The split rectus incision was made in more than 75 per cent of the cases Cough was an important fac-

tor in 6 cases and distention in 3 Infection was tor in a cases and distention in 3 intection was present in 3 discharge of blood, fluid it in the hound is indicative of rupture. The amount dis housing to moderative or topicate the along the discount discounted may be quite considerable. The rapture usually occurs ins diously. In the clo ure both of usually occurs inscalously in the covere poth of fresh mounds in doubtful cases and of issupte! near nounces to nounting cases and or natural wounds through and through sutures have proved wouses through and through sucures have prosed most satisfactory. While ( arms against placing too much rehance on catgut. If there is much tension muca renance on cargut at there is much renaum bra ded silk tension sutures should be placed through nea usus tension sutaires suomin us piacen intought the entire abdominal wall. Separation of the wound edges is most apr to occur between the eighth and enter is must apt to occur permete the wholes are sensity.

The predisposing factors are sensity tenth days. The predisposing factors are sening, decreptude malignancy number and a peculiar bod, tissue function that dissolves eatest earlier, then the dissolves eatest earlier.

Help reports that of 2145 laparotomies per formed by him rupture of the wound occurred in 4 or in 1 of \$36 with 1 death Of 1 coo laparotom es or in 1 or 330 when a ucean of 1 ood inparotonic enterprise at the Postgraduate Hospital New York pertormen as the a conference trophen aven rotal in 1932 d stription occurred in 4 or 1 in 250 with 1 the 1952 a scape of 25 per cent

cating a morranty of my per cent.

Three types of wounds may result in disruption The first is the wound in which healing apparently occurs normally put inhine occurs following is occurs notinativy out tuptime occurs comoving to the sutures. The second is the would in which a portion of the small intestine works its way through a gap in the peritoneal siture line in cook of such wounds wounds and all through a gap. cases of such sounds voming and abdomnal d s tention are more marked than usual. The wound tention are more murkey than usual and wound ruptures following removal of the sutu es. The third type of wound in which disrupt on is apt to occur is the nound which shows evidence of mad occur in the abund which shows evidence of find equate healing. The shint edges are everted within form and the condition is expertly within cocur in cases of negligible shifted extremol and to amount in the minimum of the extremol and to saundice. In the majority of the cases reviewed Jaunutee in the majority of the cases reviewed non absorbable retention entures were used and were not removed until between the tenth and

Heyd bel eyes that the incidence of wound discup tion can probably be decreased by (1) complete tion can probably be decreased by (1) complete hamostasis in all abdominal wounds (2) relaxation namostasis in an apopumina would (2) renavation of the abdominal wall during the closure of ab or the approximat wan during the closure of an dominal wounds (3) the avoidance of undue trauma (4) the limination of dead space (5) an absolutely (4) the numberon of treat space (3) on absolutely of ALTOV OCHENER M D

## GASTRO INTESTINAL TRACT

A B Clinical Consid ration of the Etiology of P ptic Ulc An attempt has been made to apply some of the an average mas occur made to apply some of the h) potheses advanced to explain the causation of n) poincies auranced to explain the causation of peptic ulcer to the clinical problems of ulcer in man peptic uter to the cumest problems of fiver in man in all probability peptic uter is the result of several an an probability peptic unter is the result of several interacting and tanable factors. Physiologists have interacting and variable factors and shopping make demonstrated that the aggressive action of undusted demonstrated that the agreement in or undustred place can produce ulcer by its erod ag potentialit es It produces ulcer the more effectively when it comes It produces meet the more energicity when it comes and in

protected by nature to receive it. The author sug Protected by matthe to receive it the author sug hely to cause ulceration when the resistance of the issues exposed to m some way lowered by trauma Thus an infected intestinal wall transcoss injured by mechanical or chemical irritants might succumb op memanical or comment initialis might succumos and disintegrate when a membrane with a normal and unsuregiate when a mentional action a mortone protecting mechanism would remain intact. Sis temic factors if conductive to the diminution of tenic factors a conductive to the annuation of resistance of tissues of capable of producing pro resistance of usages of capable of producing pro-longed or persistent accentuation of the aggression notice of personal accentiation of the aggression factor of the acid chyme might increase the liability to the development of ulcer and recurrence in such cases. There seems no doubt that the factors in tases there seems no occur that the factors in bolved in the formation of ulcer vary in different persons at different times Consequently every persons at amorem, times consequently every patient presents problems requiring careful study sould reveal the particular factor of constant and of features which will observe the features of the particular factor of the Such a study shown reveal the particular factor of combination of factors which will obtain in each case and correction of these factors should be expected and correction or these factors should be expected to result satisfactorily when applied in the treat

The author reports a series of ten cases

# Abel A L Acety Icholine in Pa alytic Heus L

The author states that in fifty cases of normal contalescence from a laparotomy he used acets icho ine fournely in the postoperal ve treatment start ing with 0 1 mgm th it six hours after the operation and repeating this dose every six hours until flatts or and repeating this uose every six nours unor nature of faces \ ere passed \ thout an enema This result is obtained in many entirely and cated cases in from

In numerous cases of general pentonitis in which in numerous cases of general performers in numerous cases of general performers and acceptabilities when the unpression of the unpression of the case he used acceptanoune Aper gained the impre some that the Postoperati e course was more favorable than it walld have been without such frestment than it were nave over attnout such treatment. However he believes that acetylcholine must be nowever as believes that seeks knowing that we used to many mo e cases bef re it can be recom mended for the postoperative treatment of every include to the peacoperative iteration of every case in which laparotomy is done in extending a case in which there was doubt as to

whether the condition was due to mechanical or whether the condition was due to methanical paralytic obstruction Abel gate of ign of actificities parapuse obstruction most gate origin or according to the houly for six doses. By this treatment operation was frequently at oided. In cases of organic too was frequently avoided to cases of obstruction no unionard effects were produced Vost patients with severe postoperative distention you pairents with severe postoperative distention gas pairs and paress of the bowels are considerably the administration of acetylcholme by initianuscular injection. In paralytic leus actylchointermuscular injection in paralytic icus accysione appears to be almost specific in effecting a cur

Martinotti G The Pathogenesis and Clinico ro nits nologicat 3) mptomat 1 gr of Dolicho colon (Sulla pat g ) mptomat 1 gr of Dolicho cadio) di dad hc 1 e) A dol med 1 e Giar cor, e

This article is based on a careful study of a num her of cases of douchocolon which the author ob-

served personally The term "dolichocolon" means an increase in the length of the colon This condition is most often confused with megacolon Further complicating its recognition is the difficulty in establishing the limits between normal variations and beginning dolichocolon. The author outlines a technique for roentgenological examination which he considers necessary to establish the diagnosis definitely

Total dolichocolon is rare As a rule the lengthening occurs only in segments of the colon Many variations occur, but the most common is the socalled segmentary dolichocolon in which only one segment is lengthened and the remainder of the colon is of normal length. In compensatory segmentary dolichocolon there is an increase in the length of one loop, but the adjoining loops are smaller than normal so that the total length of the colon is normal. In a certain number of cases there is an associated megacolon, in other words, a megadolichocolon The author believes that when the two conditions co-exist the dolichocolon was pri The mechanism of dilatation depends principally on stenosis of position (kinking) and segmentary reflex atomia. To make the diagnosis of dolichocolon in such cases the pre-evistence of the lengthening must be definitely proved. The various types of dolichocolon encountered and the distincthe roentgenological findings in each type are described in great detail

The etiological theories are discussed To the anatomical or congenital and the physiopathological theones the author adds the theory of mixed causes, a combination of the two According to the latter, an anatomical anomaly is the basis on which a pathological process acts to lead eventually to an accentuation or increase of the congenital malformation True dolichocolon is congenital The condition has been demonstrated in infants

The author discusses the symptoms in detail. In the true congenital type of case there are few if any Symptoms unless complications develop In the type of case in which the physiopathological element predominates there may be many varied and vague symptoms In any event there is no clear-cut clinical picture, and as a rule the symptoms are those OCCUITING IN any other colonic condition. In many cases dolichocolon is discovered accidentally in the course of X-ray examination

In conclusion the author states that while he believes dolichocolon is of congenital origin, the in-Crease in the length of the colon may be further increased by functional abnormalities due to mechanical or nervous factors Patterson, D C

terson, D C Appendices Epiploicæ and Their Cases New England J Med, 1933, ccix, 1255 Bland-Sutton describes appendices epiploicæ as Dianu-Sution describes appendices epipiolea as for directly continuous with the form the meantary fat directly continuous with the fat in the mesentery

They may have a protective function similar to that of the omentum, but their chief function is unknown They may be affected by (1) inflammatory changes, (2) torsion of the pedicle, (3) calcification and the formation of loose bodies, and (4) incarceration in a hernial sic with or without torsion. The diagnosis of these conditions is possible only at operation The symptoms may simulate those of almost any abdominal disease, but are especially apt to suggest diverticulitis. In some of the cases in which the diseased ippendage was on the sigmoid, appendicitis

The author thinks that disease of the appendices cpiploica is more frequent than is generally believed, and that the possibility of its presence should always be borne in mind. He is of the opinion that it may be responsible for some of the abdominal disturbances in which recovery occurs without operation or diagnosis It should be considered when exploration of the abdomen fails to reveal any of the diseases usually responsible for acute abdominal symptoms

Of the three cases reported by Patterson, one was a case of acute inflammation, one of torsion of the pedicle found during hysterectomy, and one of incarceration in the sac of a femoral hernia

#### Gundel, W, and Wayer, P CLARENCE C REED, M D quency of Appendicitis (Ueber die Statistic and Fre-Hieufigkeit der Appendicitis) Frgebn d Chir, 1933, 2111, 490

Appendicitis is steadily increasing in frequency in all countries Reports in the literature differ as to the incidence of the condition in males and females The mortality is inversely proportional to the incidence of the disease in the various age groups Appendicitis is most frequent between the ages of eleven and thirty years. The mortality is highest among infants, a fact explained, in part, by the difficulties of diagnosis Chronic appendictis occurs more frequently in women than in men \cute appendicitis during pregnancy is very dangerous, appendicus during pregnancy is very danserous, its mortality ranging from 30 to 40 per cent in contrast to the general mortality of from 5 to 10 per Cent Women of the child-bearing age who have had one attack should be urgently advised to have an interval operation before pregnancy occurs

According to Prinzing's statistics, the mortality Is highest in the higher social groups It varies greatly in different countries. In spite of improvement in the education of physicians, operative technique, and transportation facilities, the absolute mortality has increased everywhere In Spain and Italy the mortality is lower than in Sweden and Scotland Switzerland has the highest mortality of males is greater than the mortality of females

The authors discuss appendicitis in Germany in more detail As compared with the prewar period, there has been a 3-fold increase in the morbidity of the condition During the war the morbidity was sharply decreased in all countries. In spite of an

increase in the absolute mortality the relative mor increase in the absolute mortality the relative mortality has fallen. In 1923 the mortality has 2 31 per cent and in 19 9 1 38 per cent ln Gernany per tent and 1/9 v 130 per tent in Sermany the morbidity is higher in females than in males, but the mortality is higher in males than in females. The morbidity and mortality vary in the different proinces and state nices and state the tourtainty is a goest in the variable but even there it is considerably lower than in years out even mere at its tomanuctiony to net them in Scotland and Saeden Falalities are more frequent in cities than in rural districts. However, no conthustons may be drawn from this fact as most of the cussions may be drawn from this fact as most or the patients from tited districts are operated upon in patients into total quarties are operated upon in city ho pitals. If the the relative figures for age group shy that the mortality is highest after the age of fifty tage. The absolute foreign which are group on , man use mornanty is a guest after the age of fifty lears the absolute foures which are age on the years the absolute houses which are based on the greatest inc dence of the di ea e show

that it is highest between the ages of twent; and thirty teact tamburst occurrent me agree or the mix and come; hears in Ge many the cost of appendicitis to the years in or many the cost of approximation to the state and octets is non-estimated at 30 000 000 ma is annually and is increasing The article contains nume ous tables

# De Gresorio E Contributions on Twenty One Cases of Rectal Stenosis—The Ano ectal

SEPRIFICION OF FOURTH FF TO THE CS DC C2 5 d 1 15 131 Sloma no tide Fourth 19 1 dnd 933 x 764 In all of the twenty one cases reported by the author there was a history of the passage of mucopus such that was a marky of the passage of murchus and blood at some time pret ous to the development and orong at some one previous to the development of the stenosis. De Gregorio says that this may be of the stenosis De sitegorio says that this may be an indication of the beginning of the disease. With at indication of the organing of the decase with a positive Free test who had mild const pation by perphase of the rectal walls and hardness folds without stenosts he and nationed initional total without sections of observations will be of interest to determine whethe stenos s develops or not. In one of the cases reviewed the stenosis developed after a of the class fevicact the stenous descriped after a polyte abscess which drained though the rectum but there was no adenopathy In another case but there was no auchopathy in another case recults and an annular stenosis developed after the rmat on of an abscess in the intelline cm above the anus and its d anage through the ectum One case of ectal stenosis was that of a noman whose

tase or ectar stemons was the via a normal management husband had be n freated for t) pical lymphogranu lomatosis two years pre lously All of the case reviewed were those f lemales All of the case reviewed were those 1 tempers and eighteen f the women were project tetres gas and eighteen f the women were project tetres. This positive reaction to F-G sand the said that a said tempers and the said to be said to and thenty reacted postiely to D Melcos vacane and venty reacted position to those obtained by

August result is the countries to it use obtained by most other investigators i ho have found the Free most other investigators I no have bound the ric The anorectal styph long of Fourmer is charge ferred by the change of the salls of the rectum near the splinetene r gion with loss of clasticity and the spinite error is son were ross or constituty one flexibility of the lowe intestinal wall but a likewise error. I duction of the lumen or the presence of alcerations When the cas s come under observation some degree of stenosis is usually found as the symp

tems in the initial stage are so mild that they are distegarded. The lesion sometimes develops rapidly assegatives the author's cases it developed in two or

Three tipes of stenosis are described (r) the Anter Opes on securios are occurrent for the spiritular (2) the annular and (3) the clindrical or tubular Mixed Opes are frequent The rectal mixed and the spiritular of the s mucosa may show attawberry tegetations which nucces may suow strawortry becautions with bleed easily. It may be congested and red granth or whitish fistulous fracts in the penanal region

the common Among the factors that have been held responsi Among the factors that have oven their response ble for the condition are syphilis chancroid infec one for the commuon are symme changing infections (Ducrey bacillus) gonormes inherenform mycoses is mphog antiomators inguinale

There is much clinical experimental biological and anatomical evidence indicating that the condu tion has its origin in temphogramiomatosis. The autho summarizes this as follows

Chinesi et dence Rectitis and stenos s of the rectum have developed following serval relations with per one suffering from 1 mphogramulomatous Lapermental evidence Lesions of lymphogram Experimental evalence bestone of sympatograms have been produced in the inguinal glands of the gunea pig and in the brain and menings of monkers by mornistion with material from cases of anorectal vegetal one and rectal stenos s Pus from An anal abscess in a 1 pical case of 1) mphogram olimatosis with picerati e anorectitis reacts posi tively as antigen

Biolog cal evidence Free's reaction is pecific The intra-enous injection of antigen is folioi ed by Ane meta-venous injection of antigen as tomo; en of a febrile reaction. In cases of it imphogramaoma a termie reaction in cases of a impropramation to say pus obtained  $f_r$  in fixtulæ of persons with rectal stenosis causes a positive intradermal reaction

tenuss causes a positive intracermal reaction Anatomical evidence. The p thological changes in hyperplastic cond lomata of the anal folds and inguinal lymphogranulomatosis a e similar The author believes that the cause will be dis covered only b) determ n ng phether the rectal nd

covered only by determining whether the receasing tetrorectal gland lesions are the same pathologically. fettorettal giand lesions are the same pathological, as those of I, imphogranulomatous. The I) imphatic as those of transprogrammomatous are transprogram infection of the region is of great importance in the micrison of the region is of great importance in the production of the standard The primary infection. of the lymph slands usually those of Gerota ac or the location of the stenos s at the letel of these glands B) retrograde lymphatic d smage from these glands the infection extends to the sibmucosa and mucosa of the rectum caus no sterosas The origin of the infection may be genital anal or rectal. When it is genital inguinal aden its occurs and the infection extends to the anal and persons and to 3 intection exceeds to the anal and persons. When the origin is anal of feetal the anal contents to the said to the sai tegions when the origin is anal or tectal the anal and p nicetal lymph glands may be inv. It d first may be the only glands in hed. In the fit o may we the only granus as the constant and an area and an area and an area and an area and area area. and in the second's mple stenos s of the rectum nill develop provid d the infection remains in the pen

the author is of the opinion that in many cas s the ethological agent may be the agent responsible for lymphogranulomatosis inguinale, but that syphilis and chancroid infections may also play a part

W H MARTINEZ, M D

Ladd, W E, and Gross, R E Congenital Malformation of the Anus and Rectum Am J Surg, 1934, XXIII, 167

This report is based on a careful study of 162 cases of anal and rectal abnormalities

Following a discussion of the embryology of the anorectal region the authors present their own classification of anorectal anomalies which is based on clinical studies and is of value in determining the form of treatment and the prognosis (1) stenosis of the anus, (2) membranous obstruction of the anus, (3) imperforate anus, but with separation of the rectum from the anus, and (4) anus and anal canal normal, but with separation of the rectum from the anal pouch. The external anal sphincter is present in all 4 types. In 52 per cent of the cases reviewed fistulæ of various types were present.

The symptoms and physical signs in these cases are essentially those of complete or partial intestinal obstruction In the reviewed cases of imperforate anus and rectal atresia there was complete obstruction whereas in the cases of anal stenosis and those with fistulæ the evidence of intestinal obstruction was less marked In all cases careful examination of the anus and rectum yielded sufficient information for diagnosis and classification of the case X-ray examination with the infant in the inverted position was a valuable aid in determining the distal extent of the rectal pouch in cases of imperforate anus and rectal atresia. In the first fifteen or twenty hours of life even this method is not entirely reliable as some time is required for gas to reach the lower intestinal tract

The treatment varied with the type of case, but the essential feature, of course, was the establishment of continuity of epithelium between the rectum and skin to prevent scar formation with constriction The external sphincter was always used to provide adequate control In the cases of stenosis repeated dilatation was usually sufficient. When the canal could not be dilated, it was excised and the rectal mucosa was brought down In cases of membranous imperiorate anus a cruciate incision followed by dilatations was sufficient The cases of Groups 3 and 4 presented the greatest problems The majority of these were operated upon by the permeal approach. The rectum in such cases was brought down through the external sphincter and the mucosa sutured to the skin. When the rectal pouch was not long enough to permit this, colostomy was performed. However the perineal operation was possible in the majority of the cases-86 per cent of those of Group 3 and 66 per cent of those of Group 4 When fistulæ were present it was found to be expedient to vary treatment according to the location of the fistulæ The lower ones (rectoperineal, rectofossa navicularis, and rectovaginal) were relatively easy to close when the rectal abnormality

was corrected during the first few days of life The higher ones (recto-urethral and rectovesical) were difficult to reach through a perineal incision Consequently it was found best to delay treatment of these until the patient attained the age of eight or nine years

In the total number of cases there were 43 deaths Twelve were directly attributable to associated congenital abnormalities. This leaves a mortality rate of approximately 10 per cent for the anorectal abnormalities and their complications. As might be expected, the mortality was lowest (9 5 per cent) in the cases of Group 1 and highest (61 6 per cent) in those of Group 4.

## LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Schrassi, B Calculosis of the Gall Bladder (La calculose de la vesicule biliaire) J de chir, 1934, Alin, 8

Since cholecystectomy was first performed by Langenbeck in 1882, it has become a standard operation which is carried out in thousands of cases of cholelithiasis yearly. However, regardless of its popularity, experience has gradually demonstrated that it is currently undertaken with much more optimism than is justified by its results. According to one authority, complications occur in 50 per cent of the cases in which it is done

For many years the author has been reluctant to remove the gall bladder, and since 1900 he has been an active opponent of cholecystectomy as a routine measure. Whenever possible he has limited operation for cholelithiasis to evacuation of the gall bladder followed by complete closure, believing that the gall-bladder possesses important functions and therefore should be conserved.

When the sphincter of Oddi opposes the flow of bile into the duodenum the gall bladder acts passively as a reservoir. While the bile remains in the gall bladder, the gall bladder concentrates it 5 times by removing part of its water content. By active contraction (the claims of Winklestein notwithstanding) the gall bladder empties its contents into the duodenum at the moment when the chyme is most abundant.

Following cholecystectomy the sphincter of Oddi loses its tonicity and the flow of bile into the duodenum becomes continuous or the tonus of the sphincter is retained and the common duct and the hepatic ducts with their first branches become dilated and assume the function of the gall bladder

The pathological changes following cholecystectomy include progressive destruction of the epithelium and fibrosis of the walls of the larger bile ducts, conditions favoring infection of the biliary tract, an increase in intestinal putrefaction and in the virulence of the intestinal flora, reduction of pancreatic secretion by at least two-thirds (Iverson), and interference with the digestion of fat These are the intrinsic effects of the operation Possible

extransic effects include pancreatitis pencholedochal addesons penduodentits and pencolitis with ad adnessons permusorentis and personal permusorents and bitaty fitting. Because of become and accuses and musicy mental accuse of the frequency of these complications Rosenthal the frequency of these complications and Actor promise a patient about to undergo choice, steeting, that he still not suffer after the Choice, sectiony that he sui not some after the operation. The mortality from persionals harmon thage shock and bepatic degeneration after the company of the state of the sta The hepatic

operation is not inconsiderate changes are especially important tanges are especially important Schlassi performs cholecystectomy only when the

octional posturins country accessory only and the walls of the gall bladder are altered to such a degree walls of the gait binder are altered to such a degree that the function of the organ as a contractile reservable the gain which they hadder the states that in cases in which they hadder and is only discretely thickness the mucosa is only slightly discretely and a such a such and map challenged the such as a contract the mucosa is supported by slightly discretely thickened the mucosa is only sugarity uncerated and the serosa is smooth and pale choice; stosiomy and the serosa is smooth and pade choice) sustaining is sufficient. When the serosa is smooth the other tunics are little thickened and the mucosa is free tunics are using cholect stends are the muscose of the operation of choice This consists in liberation of the gall or troote this consists in increasing of the gain bladder and exacuation of the calculi followed by Diagoer and evacuation of the cauchy solution of the complete closure. It was first performed by Loreta of Bologne in 1875. The author shows the technique on projugate in 1975. The author shows the technique by illustrations. He and his colleagues have ob by Mustrations the and us consigues have on tained satisfactory results from cholecy stends as

Launers E The Su gical Treatment of Cance of Awers & The Su Bicar I reatment or Cance of the Ampulla of Vater (T at ment large cal du 1933 vlu 833

Of the cancers of the small intestine those of the duodenum are the most common They usually occupy the ampuls of Vater and may anse from the occupy the ampune of vacet and may affect the duodenal mucosa the duct of ampuna usen une ununenat mutuva Wirsung or the head of the pancreas

Depending upon the origin of the tumor the first Lepending upon the origin of the tumor the arising of cancer of the ampulls is obstruction to the result of cancer of the amprova is obstruction to the flow of bile or the pancreatic secretion Practically how on the or the panercan secretion reactivity. bowerer the initial symptom is alway a ictery. The interns may be slight and intermittent, but usually needs the referring may be slight and intermittent but usually as continuous and becomes prospess vely more in tense. When there is complete bil ar, Obstruction and American and American American tense When there is complete ou ary obstruction the faces are clay colored and heavily charged with the faces are clay colored and heavily charged with fat and prote as and the urns is a fully pigmented.

When there is a complicating biliary infection end faces over a few contraction and faces over Eventually heavily Yuen mere is a computating quarty injection epi gastine pain and fesser occur. Eventually hepatic gastric pain and toxic nephritis develop and the pa ecceptration and toxic repairing develop and tae pa tient dies with oligina vomiting and deepening

Physical examination reveals no tumor. The liver En) sical examination reveals no tumor the inverse face and unless cholchthaus complicates the

cture the gan manner is unated Cholecy stography shows only the absence of a Linuters stography shows only the suscence of a Roenigen estimination of the gat to intestinal tract may reveal hyperpensials and the sum of th gestio meesting that may reveal hyperpensions in the diodenum and occasionally a small defect in in the unvacuum and vecasionary a small vector the inner border of the shadow of the second portion the muter vorteer or the solution of the second portion Analysis of the duodenal contents and of the faces for blood is usually negative

or guogo is usuady ucgaure.

In the differential diagnosis stone in the common in the o nervanist diagnosis atome in the common duct chronic parcreatitis and carcinoma of the pan

creas must be ruled out. In cases of stone in the creas must be ruled out in cases of stone in the common duct pain precedes the icterus and the ic common unce pain precesses the scients and the ice terms in international to amount paraconate and carried and of the paracreas there is a palpable tumor The treatment of cancer of the ampulla may be

The treatment of cancer of the ampuna may be palliative or radical Palliative operation Consists of national or external dramage. The results of both consists of the palliative operation is consistent than the consistency of the palliative or consistency of the palliative of the pa internal or external orange of the teams of the period of Types of dramage are poor according to consider the mortality of internal dramages as 5 per cent and that the consideration of external dramages poper cent. The radical operation of the consideration of the consideration of the consideration of the consideration. on external utamase 70 per tent. The radical operation consists of femoval of the tumor. This was first performed b) Habitead in 1893. The patient died Petromer up analysis us toyo Aug Petron use see en months later from recurrence. In 1900 Mayo sered mounts inter from recutiente an 1900 happened the case of a patient who survised the reported the case of a patient was nurvived the operation (so ) ears At the present time about sixty four cases are on record. In fifty seven the consention was done to no consent time about the fifty seven the consent of the case of operation was done in one stage. In fifty-one the operation was come in one stage in nity-one toe the more was removed by the transduodenal route in the py the retroduced and route and in the through the common duct In two instances a seg ment of the duodenum was resected. Among the ment of the duodenum was reserved Among the seven two stage operations cholec-stostomy was reserved. Among the performed two damage of the common ductions of the common ductions of the common ductions. performed twice grainage of the common uncu-tivities cholecy sto-enterostomy three times excision twice enough duodenotomy five times and ex

or the tumor by resection of a segment of the The value of the radical operation depends upon Ane value of the radical operation depends upon the variety of the tumor Tumors originating in the fernmal portion of the common duct in the duct of It stung or in the duodenal mucosa possess the trising or in the quotenal mucosa possess to degree of malignancy common to cancers of the in cegree or manguancy common to canters or one an testine and inexistance to the regional lymph nodes

rescine and roccastastice to the regional 1) mpa noves
True tumors of the ampulla remain strictly localized or look persons

The difficulties of a tadical operation are much less formidable than is generally supposed. Whether ies utitionate than is generally supposed in order the operation is performed in one of two stages the first step should be diversion of the flow of bule than the operation of the flow of bule than the operation of the flow of bule than the operation of the ope

arst step should be diversion of the flow of bue Este nal dramage is to be condemned. For internal hate naturanage is to be consumined for interna-dia rage a choice may be made between choice; sto cua hage a choice may be made between choice sto gastrostomy cholecystenterostomy and choledocho gastrostomy enoccystenterostomy and emocrotic enterostomy Cholect stogastrostomy is undestrable cureringony choices stogastrostomy is unoessessive because the Rastric Ju ce eventually damages the Rastric Buccos Most surgeons and mages the muona data from the American Without Standard Without Standard Company (Without Standard Company) with the standard Company (Without Standard Company) wit gau piaoner mucosa Most surgeons agastomose and common duct to the duodenum. When this is done Sometimen outs to the anomation when this is some by Coffey's method there is no reflux of the due denal contents. When the gall bladder is dilated an Genal contents 10 iten the gair distinct is distinct an anastomosis with the Jejunum is preferable. A long anasconous with the Jejunum is preterable a single bloop of Jejunum or the Y anastomous of Montprote should be used. The latter el minates the danger of angrocholitis

Depending upon the Pat ent's general condition the second stage of the operation remoted of the the second alage of the operation removal of the forth of weeks. The initial exploration to enablish the presence of the tumor must be direct through an the presence of the tumor must be career unions of the duodenum. The tumor is often no inclusion of the duodenum. The tumor is often in larger than a pea and may be overlooked if only pal narger man a pea and may be overloosed a voly pattern of the duodenum is done. As the tumor is Jeans to the quotesiam is some As the country of the finable or mobile sounding of the common duct may also lead to error. The dwodenum should be

mobilized and then opened by an incision along the nght border The tumor has the appearance of a small cauliflower growth or an ulcer When it is a cauliflower growth it has arisen in the ampulla and is sharply outlined. When it suggests an ulcer it is a malignant intestinal cancer and the surrounding mucosa is indurated To excise the ampulla a circular incision should be made. Usually this need be no deeper than the submucosa If the muscularis is included, the pancreatic duct must be re-implanted in the duodenum and the common duct ligated at its origin

Resection of the duodenum with or without the head of the pancreas is a difficult and shocking operation Moreover, for cancer of the ampulla it is more extensive than necessary, and for cancer extending beyond the limits of the ampulla it falls short of a rational operation for malignancy Coffey has systematized the technique, but the procedure has been

attempted only five times

Radium therapy has apparently been employed only rarely In one case, Abell (1924) fixed the radium in close contact with the tumor through a

duodenal incision and for removal attached it to a heavy thread previously introduced by mouth Handley (unpublished case) introduced needles into the neoplastic mass by the retroperitoneal route and brought the threads to which they were attached out of the abdomen through a large drain Because of the marked edema produced by the radium and the menace of complete duodenal obstruction, a prelimi-

nary gastro-enterostomy is essential

The author gives the histories of two personal Both patients were operated upon in one stage Internal drainage of the bile was established by a Y cholecystojejunostomy A generous loop of the upper end of the jejunum was sectioned and the lower end passed through the transverse mesocolon and implanted in the gall bladder. The upper end was anastomosed to the side of the lower segment of the loop, end to side In both cases the tumor was small and could be excised by an incision of the mucosa and submucosa alone When seen respectively nine and forty-six months after the operation, the patients were in good health

ALBERT F DE GROAT, M D

GYNECOLOGY

Plable G E and Vastine J II the Treatment of Fib. myoma of the Uterus Irradiac n in

The authors believe that irradiation is the treat ment of choice for (t) all cases of fibrom oma in ment or choice to (1) an cases or moromy one in women near or past the menopause in which the women mean or pass one memopeose in winto one tumor extends no farther than mid say between the symphysis and umbilicus is not undergoing degen sympays and unumbers is not underforms when ciation and is not causing intorcance pressures inp toms (2) all cases of abromyoma to women with marked organic heart disease diabetes nephritis nearest usease manetes acparities or other constitutional con Poumonary thouseways or other constitutionar con and (3) all cases of large fibroids in thich immediate operation is contra indicated by anemia

Operator is contra indicated by (i) malgrancy of the utering of address (a) tumor masses extend gg far ther than midical to the unbidicus unless operation toer than motiva) to the unionicus unicss operation to refused or there is a definite contra indication to operation (in which case irradiat on is justified for a operation (in which case itratings on is justified for a forms ona of any size) (3) pedunculated or sub aromyoms of any size; (3) perunculated or sub-macous tumors (the results in the treatment of such interpolations transcribed as the bleeding often con tumors are uses tavoratic as the meeting of the tradation (4) large fibroms omata times after the manualion (4) large motions of the high are producing distressing pressure at improns and yield to tradiation too slowly and (5) fbro

m) omata which have unde gone cystic degeneration f are gangrenous.

In the cases of joung women with the desire for

In the tases of Jours women with the desire for and the possibility of pregnancy my ometomy is the treatment of choice. If operation is refused or if the treatment of choice. If operat our is recused or it operations is impossible treatment by irrad attor myometions 3 impossione treatment dy irrad action to profect the The advantages of roenigen therapy are sum marized as follows

arrica as muons

1. Roentgen rass are almost universally available They a e more useful than radium as they produce a more direct and homogeneous effect on the tumor as well as on the ovaries Reentgen therapy can usually be applied with

out serious) interfering with the patient's occu 1 It is less expens ve as hospital costs are avoided

The effect s produced more gradually than by operation o radium irradiation Deciation o fautom accausation

6. It el minates nervous shock as well as any objection to intra utenne applications

7 It produces no caustic action on the endo metrum

metium
The authors u e soo ky 4 mg a filte 10 5 mm
of copper and a d stance of 50 cm In cases of small and stance of 50 cm In cases of small and stance of 50 cm In cases of small and stance of small and stance of small and sma or copper and a distance of Su car and cases of sunantific one anterior and one through each sacroscrat c noich the central rass

being directed through the uterus If the tumor is very large more portals must be employed and very large must be taken to prevent fat necrosss freat tate must be taken to prevent tak mercons for on the subcutaneous tissue. As a rule teon trops are on the succurantous usage the arms be actions give so per cent doses senally through cach of the thee fields until 100 per cent is given eath of the to be details until 100 per cent is asset through each field. In cases of large tumors farce carrough each neur in cases or large cumors cance this amount is necessary. Because of the danger of fat theories, of thousand telanguedissis, and cross free and the constraints of the constraints of the constraints of the constraints. effects on the subcutaneous tissue near the surface the authors avoid giving more than a total of 250 per cent through any abdominal field

er cent turning any annountiat new With regard to radium therapy the authors state that as a patient may have both a abroid and a car contains of the body of the uterus they pe form a canonic or the obus of the uterus they be form a unatation and to estage verore introducing and am If the pathologysts report shows malg nancy the radium is left in place for a longer period of time. In cases of small fibroids a single applications and the case of time in cases of small fibroids a single application. tion of radium is usually sufficient. A polyp or endocorn of same a usually solution. A positive concernates associated with the formed will all be trested successfully by the single procedure Ra

dium usually causes cessation of the hamorrhage The authors use their own applicator which is The authors use their own applicator which is correct like a uterine sound and will accommodate to or the ce so mem cassules. The rad um is ti o or in ce so mgm capsures are tau unt to strength the to a mm of platinum and o 5 mm of the Archive of the transfer of the screener marto 2 mm or practinum sact 6.5 mm of ba d rubber o aluminum and is left in place for or ea traver o distinguish and is left in place on from twenty for to forty eight hours depending upon the condition present The vagins is well assessed both to keep the applicator in place and to paners notes to accep the apprecator in place and addisplace the bladder and rectum. In cases of large fibroids and cases of mal grant d sease the autho a used both radium and deep roentgen therapy

#### ADNEXAL AND PERIUTERINE CONDITIONS AL ERT W VOLLMER IT D

Rubovite W. H. and Aobak A. J. Fail es in Boyle W H and Kobak A J kall es in Carlos St rillzation (Madi n ) kall es in Am J Ob 1 &

Two cases in which the Madlener tubal sterniza ton was followed by pregnancy were studied by seral sections. Each case represented a different property of the studies of the section of the section of the studies. manner of restoration of the function of the rubes manner or restorar on or the sunction of the same one table appeared to have recovered its patency by One reque appeared to have recovered its parents of an endosalpingious whereby an approximation of the an enovolphiscolo nucleuy an approximation or the shurted the loop of crushing and ligation. The tutes sauacea the 100p of crusning and agation office tube recovered its function because the lig thre cut though one loop and encircled the other

In two cases Y tay examination showed hypodol an two cases tray examination showed inflower passing through the portion of the tube op ated up n without a free spill into the abdominal cavity The authors conclude that the results of the Mad I he authors conclude that the results of the real lener operation must be checked by lippodol visuals

zation at a later date X-ray examination is of value also in the study of histological segments of reopened tubes when they are removed

EDWARD L CORNELL, M D

Cornil, L, Mosinger, M, Imbert, R, and Harvey, R A Histogenetic Classification of Tubal Epitheliomata (Sur une classification histogénétique des épitheliomas tubaires) Gynec et obst, 1933, axviii, 561

Tubal epitheliomata are rather rare, only 400 cases having been reported in the literature to date However, their apparent rarity may be due to neglect on the part of pathologists to examine extirpated tubes. Lecène and Hamant are of this opinion. In a systematic study of suspected tubes during the past year the authors found 2 cases of tubal epithelioma and 1 case of benign wolffian tumor of the tubal wall. Wolffian dysembryoplasia is not rare

The symptoms of tubal epithelioma are not characteristic Of the 2 epitheliomata reported by the authors, the first was a papillary epithelioma and the second a microcystic, partly solid, tubular tumor springing from the tubal wall Two theories as to the origin of the latter are offered, the first that the tumor developed on an endometrioid basis, and second that it was due to wolffian dysembryoplasia The authors question the theory that in primary tubal epithelioma the serosa is always intact and its extension is always exophytic. The primary nature of a tubal epithelioma must be determined by excluding the possibility of ovarian or uterine metas-Another factor leading to confusion is the marked histological resemblance between tubal epithelioma and the wolfhan tumors, i.e., a papillary structure and an epidermoid evolution

The following suggest wolffian tumor (1) a tendency toward cyst formation, (2) a mucoid evolution, and (3) phenomena of cellular degeneration

When a uterine tumor and a tubal tumor are associated the tubal tumor may be a metastasis from the uterine tumor if the uterine os is invaded and a papillary structure is lacking. The tubal epithelioma is primary if the uterine metastasis is papillary. In these cases the os uteri remain intact. I he two tumors may develop simultaneously.

It is sometimes extremely difficult to differentiate sarcoma from epithelioma of the tubes especially as there are true tubal sarco-epitheliomata Simple hyperplasia may often simulate cancer

In conclusion the following 3 histogenetic types of tubal tumor are distinguished

r Orthoplastic epithelioma presenting 2 types of growth, i.e., endophytic and exophytic

2 The metaplastic epithelioma developing on an endometrioid basis at the expense of pre-existing mucoid islets

3 The wolffian dysembryoplastic epithelioma

At a certain stage of development a histogenetic diagnosis of these tumors is impossible. This explains the confusion in published morphological descriptions. EDITH SCHANCHE MOORE

Melnick, P J, and Kanter, A E Theca-Cell Tumors of the Ovary Am J Obst & Gynec, 1934, VVII, 41

Certain ovarian tumors evert hormonal effects Of the feminizing type there are two, the granulosacell tumors and the theca-cell tumors Theca-cell tumors have been recognized only recently. The authors report two such tumors which caused hyperplasia of the myometrium and endometrium and postclimacteric bleeding. In one case the bleeding was periodic, resembling the normal menstrual cycle. The tumors are composed of cells which have the histological characteristics of theca interna cells. Apparently they secrete theelin. This conclusion is supported by considerable experimental and deductive evidence from the literature indicating that the theca cells secrete the estrogenic hormone.

Unfortunately, the tumors reported were formalin fixed before implantation experiments could be carried out, and no blood or urine tests for hormone were made

The authors conclude that in cases of bleeding after the menopause in which nothing of an etiological nature is found in the systemic or local examination and curettage is unsuccessful, colpotomy should be done and the ovaries examined for tumors EDWARD L CONNELL, M D

Kleine, H O The Status of Granulosa Carcinomata of the Ovary from the Clinical, Histological, and Radiological Standpoints (Die Sonderstellung der Granulosacarcinome des Ovariums in klinischer, histologischer und strahlentherapeutischer Hinsicht) Strahlentherapie, 1933, vlvn, 326

The author reports twelve cases of granulosa carcinoma of the ovary. The endocrine effect of this tumor, which depends on the function of the granulosa epithelium, is manifested strikingly by stimulation of the growth of the mammary glands, the myometrium, and especially the tubal mucosa and the endometrium, as was first shown by Meyer Glandular hyperplasia of the endometrium is practically pathognomonic of granulosa carcinoma. Heterotopic invasions of the uterine wall by the endometrium have also been demonstrated. As a rule there are uterine hæmorrhages. These are particularly apt to occur when the tumor develops in childhood or after the menopause.

The author observed a case of granulosa carcinoma in a child of three and one-half years, the youngest patient with this disease to be recorded in the literature to date

The author's studies demonstrated for the first time that the pituitary gland may show no characteristic histological changes in cases of granulosa carcinoma. Two of his patients had widespread metastases, evidence of the carcinomatous nature of these tumors.

Morphological, embryological, and hormonal experimental investigations support the assumption that these ovarian blastomata arise from the

INTERNATIONAL ABSTRACT OF SURGLEY granulosa epithelium and demonstrate that nomen

granuosa epithenum ann universitate unet nomen in the child bearing age become normal after extir pation of the tumor Like others, the author has found granulosa car

chomata highly radiosensitive Partially estimated thmore have been treated successfully by Yray

Many previous reports concerning the radio sensitivity of malignant ovarian tumors are worth less because of their lack of histological data response of cures of ovarian fumous by irradiation should include a detailed description of the histo logical findings HANS O LELMANY (G)

#### MISCELLANEOUS

Sorters A. F. Horosont A. A. and Scriubott W. G. The Influence of Opaque and Caustic Substances on the Organs and Tissues of the Substances on the Organs and clasues or the Leaser Pelals. An Experimental Study (Su Leaser Pehla An Esperimental Study Jiadic n des sub eau s paques (caustiqu per t tassu Esperimentale) G to du per t tassu (caustiqu mentale) G to 1933 xx u (cog

Hysterocalpingography is employed to determine (1) the condition of the utenne cavity, (2) the rela Etud e p n (1) the condition of the uterate cavity (2) the sense thous between the cervix and body of the uterus the relief of the mucosa and its condition (4) the presence of submucous tumors and polyps tay the presence or summarous tumors and polypion in the uterine cavity (5) the topography configuration and size of the uterine ca viv in cases of nguration and size of the natural carry in cases of the more of different () pes (6) the presence or absence of pregnancy elements in incomplete abortion or pregnancy mements in mevaspiere apprison (3) the presence of extra utenne pregnancy (8) the (7) the presence of excia cuttine pregnancy (o) one presence of utering genital parts in tertain terato. presence of uternic kenness parts in terrain terrain forged cases (o) the presence of obstruction and construction of the full past tubes and (to) the case of the constitution of the tail plan caues and (10) the depth and topography of the attificial vagina f rimed b) the operations of Haldwin and Mun

The various of paque substances used differ n their imitating effect on the tissues I the genital Those most commonly employed are organia chose must commonly employed are to should be deal or order to should the effect of some oromice in order to study the enert of these substances on the tissues more carefully the authors carned out a series of thirty four expension ments on d gs injecting the various substances into ments on o gs injecting the various substances into the uterus and tubes under pressure without prescare are used and course under pressure minour pressure and unde normal conditions. The technique and results of the experiments are reported in detail and the fillowing concl. ions are drawn

The cle rest roentgenograms are obtained with the use I lipsodol and barrum emulsion According to control reentgenograms by todal persuats in the normal attents for nearly two weeks its presence after two weeks ind cates an imperfect step presente arrec and necessarion cal proc se

In the pregnant uterus the opagu masses distribute themselves in a peculiar manner bet co distribute themseries in a premise manner were the coverings of the fetus and the uterine walls forming spots of diffe ent sizes

sening spots of time ent sizes
4. Roentgenog aphy does not always show the quantity of residual opaque substance which is present in the walls of the uterus and can be demon

strated only by histological examination This may attacts only by disconsistant establishment of the explained in part by defective roomigenographic techniques and in part by the distribution of opaque enhancement of disconsistant which contains the substances in process of dissolution which cannot

Sin the different experiments with lipsoid the edects on the tubo uterine wall aere quite different After insuffiction under pressure the incidence of Ther tusumation under pressure one insucence of changes was 75 per cent and the atrophic changes were marked. Her insuffiction without pressure the incidence of changes was 40 per cent and atrophy was less pronounced or wholly absent 6 Lipiodol is resorbed in two weeks in the nor

mal plerus but pers sits longer than two weeks in the weeks in non developed uten or in inflammatory or de

7. Satisfactory results were obtained with barium emulsion without any change in the uterus Mussion without any change in the uterus

S. Leucorthea after the injection of todaye is transitors

The resorption of the opaque substances occurs by continual penetration of the latter into the wall

The changes in the ovaries manifested by to the coanges in the overtee maintenance of diminished function were noted only when todays omnument tunction were noted out; when nounces used and those man fested by marked hyper was used and those wan tested by marked hyper amin f the ovaries and the whole periforcum

In all of the experiments with lipiodol and barium no change was observed in the ovaries the Defiting no change was conserved in the change and peritoneum of other 1 ssues of the smaller pelvis trituneum or other a saves of the smaller petting.

12 When the indications and contra indications. are carefully considered and a correct technique is used hysterosalp agography is free from danger

#### Mazer C and hatz If R Clinical Evaluation of Combin d I ofan and Ant rior Hunting Th cap f day / 10 013 x u co

Mazer and hatz studied the effect of prolan and District our naise studied the facts of production extract of the anterior lobe of the printing kind when used admixedaily and combined. By probating mean the attentor extractive the extractor of the contractor they mean the anterior patentary like substance ob tang incan the antenot potentialy the appearance of the state of the state of pregnant women. In the tance from the utime of pregnant women in the fiterature and in his own expendence Ager found that only to per cent of amenombere women te pond to prolan alone However prolan Nomen te ponq to protan atone
has a favorable effect on functional uterne bled ng due to pituitan deficiency. The explanation is that oue to pituliar) dendend. The explanation is man amenorihera and of commonths a are due to more aintholines and of komenorious are use to more severe pitulary deficiency than functional bleed pg and require more stimulation than prolan can produce that there is a variability of species response Oute that toete is a variativity of species response and if at in the human being prolan cannot thru a and it as in the numan being projan cannot summed the prim rd al folicie developm nt though it has a ma ked luteinizing eff ct The wirk of other miest gators has indicated a

hological d amilianty between prolan and the biologica) a unmarity between protato and form ne I the anten 1 lobe of the pitu tary gland orm he cane anien rape of the picusary Estate
I rolan has found to stimulate the prehormone of the anterior lobe of the pituitary gland into an

The authors confirmed the findings of Evans in rats and of Leonard in rabbits that the combination of extract of the anterior lobe of the pituitary gland and prolan causes a much greater ovarian response than either of the two products employed individually. There appeared to be an unknown principle in the pituitary extracts which, when employed individually, produced no gonadotropic or growth effects, but when used in combination with prolan produced ovarian stimulation far greater than that produced by prolan alone

Fifty patients with amenorrhoa or oligomenorrhoa were given three weekly injections of 4 c cm of pituitary extract and from 30 to 40 rat units of prolan. The number of injections varied from twenty to sixty. Only nineteen of the entire group of fifty responded to the injections by six or more menstrual flows at regular intervals and of fair quantity. A few menstruated while under treatment, but did not continue to menstruate after the treatment was stopped. Only one of the nine women suffering from hypomenorrhoa responded to the treatment.

The best results were obtained in cases of definite pituitary deficiency. Thirteen of the twenty-four women classified in this group responded favorably to the treatment, while only one of thirteen women suffering from primary ovarian failure was benefited. The authors describe the characteristics of the patients with pituitary or ovarian deficiency.

Primary dysmenorrhæa was not influenced by the injections of pituitary extracts and prolan

A F LASH, M D

Sommer, S The Serum Diagnosis of Gonorrhoea in the Female (Zur Trage der Serodiagnose der weiblichen Gonorrhoe) Ztschr f Geburtsh u Gynaek, 1933, cvi, 185

In a study of the practical value of the complement-fixation reaction in gonorrhoea the author examined 308 sera "Compligon" and a preparation of the Department of Public Health of Prague were employed as antigens These 2 preparations proved

to be equally reliable

Of 106 cases of chronic gonorrhoeal adnesitis, the causal organism could be demonstrated bacteriologically in only 27 per cent, whereas the serological examination was positive in 95 per cent. A strongly positive and a positive reaction constitute strong presumptive evidence of the presence of gonorrhoea, but a weakly positive and slightly positive reaction must be interpreted in conjunction with the clinical findings and are indications for further study of the case

In acute gonorrhæa a positive reaction is very rarely observed before the fourteenth day Therefore the significance of the test is much less in superficial processes limited to the mucous membrane than in chronic adnexitis

In metastatic lesions of gonorrhæa, a positive reaction may be expected in practically all cases. The reaction is positive also in the cases of patients who

have previously received injections of gonococcus

As a rule the reaction continues to be positive for from two to five months after clinical cure

With regard to the specificity of the reaction in cases of serum positive lues, the author believes that only luetics who had a gonorrheal infection previously have a frankly positive complement-fixation reaction for the gonococcus

In conclusion, Sommer advises routine serological tests for the gonococcus in cases of gynecological inflammation

WALDEYER (G)

Vidakovič, S The Gonococcus Complement Reaction in Gynecological Inflammatory Diseases (Go-Komplementreaktion bei den gynaekologischen entzuendlichen Erkrankungen) Liječ vijesnik, 1933, lv, 408

Up to the present time the gonococcus complement reaction has seldom been employed in gynecology although it may be of value in the differential diagnosis in many instances of pelvic inflammatory diseases A differential diagnosis between puerperal septic, tuberculous, luetic, and gonorrhæal infections on the basis of the history, clinical findings, and pelvic examination is often very difficult. In chronic gonorrhea, microscopic examination of the cervical and urethral discharge is usually negative whereas the gonococcus complement reaction is positive. Siegert-Schultze and Bruehl obtained a positive gonococcus complement reaction in 75 per cent of their cases, while Bucura, using his method of withdrawing and testing blood from the portio and the venous circulation, made a correct diagnosis in from 90 to 100 per cent of his cases

In the author's chronic cases the blood taken from the portio gave a somewhat stronger reaction than the venous blood. In some cases the reaction of portio blood was positive when that of the venous blood was negative In no instance was the reaction of the venous blood stronger than that of the portio blood The test for syphilis was made at the same time In four of seventy-five cases the complement reaction was positive, a finding of great importance in the treatment. In one group of cases in which, although gonorrhæa was strongly suggested both clinically and by the findings of palpation, the gonococcus complement reaction was constantly negative and the condition resisted all forms of conservative treatment, operation revealed tuberculous salpingitis It is emphasized that the gonococcus complement reaction was negative in many cases with clinical findings suggesting gonor-In such cases further investigations are rhœa necessary

Léo, G Observations on Parasitism in Gynecology (Notes sur le parasitisme en gynecologie) Rev franç de gynec et d'obst, 1933, xxviii, 834.

Three common gynecological diseases caused mainly by parasites are described. The author first reports ten cases of dysmenorrhæa due to helmin-

thiasis Some of these cases nere under observation for a number of years Vost of the nomeo showed tor a numoer of years work of the women shown the characteristic symptoms of intestinal para inc the rearacteristic symptoms of intestinal para ite some of them had nervous symptoms Intestation Some of them had nervous symptoms such as headache g ddines in omnia and picking

of the nose The others consulted the author he on the pose Ane others consulted the author the agree of gastro intestinal sympt may prove the state of the s oreata sativati n and minat in comi nt irregular movements of the bot els and intense tiching about inoverments or the novers and interse terms about the anus some of them had a pale or sallo s skin the anus one of them had a pate or sailo s sailo said sunken eyes. The parasites found were the or sailo s and sunken eyes of both for one case the blasto management of the control of th estates or some and in another a rare form of in Ostis nominis and in another a rare form of in lessimal inchomonas the lambling is as discove ed in testinat inclumonas the tambha has discuss ea in the stools. The severe dismenorthers was either the stools and selecte dismensionada was cined by the administration of anthei

The author next discusses infestation with trich The author next discusses infestation with trich omoras. He cites Rill who claims that the trichomonas vaginals is incapable of injuring nor many analysis of the property of trenomonas vaginaus is incapanic or injuring nor mal vaginal epithelium, but in the presence of e en mat vastinat episticulum but in the presente of e en microscopic lesions of the vasinal mucosa it causes increscopic resions of the raginal minerosa it causes the frichomonas vaginitis which is cha acterized by the incumination of a gametic nation is one accentsed by tellowish and frothy discharge

This discharge produces multiple erosions and some Auss consensing produces multiple erosions and some even papillomatous growths of the vagatal

wall
The inchomonas also cau es persistent pruntor
unlas Cotte claums that nine of ten ca es of vull sir Autras Corte ciainis that more or ten ta es or valvar in munitus are due to it. The parasife may even inva le

the cavity of the uterus
Schmid and Lammker fund that preknade
women harboring it e trichomonas in the vagina
harboring the strength and the vagina women naturaling the inchanges in the vagua have a high postpartum morbility. Therefore it is nave a nigo postpartum moroi iti; Aneretore it is advisable to examine the vagina for trickomonas advisable to examine the pagina to continuous before every confinement and every go necological before every connamenation and every generological operation. The best treatment is the alphaetom of a 50 of 100 per cent solution of silver intrate

for all persistent cases of vol ovaginitis in chil For an persistent cases of via ovaganitis in can den the author advocates the use of a vermitage oren the author autocates the use of a verminge because this infestation is often aggravated by a octains unissistation is outen aggravated in a submitistation with origins vermicularis. He often success of severe vulvoyagents with eastern two cases or severe varyovegames man become intestinal and nervous manifestations in grifs six intestinat and nervous mannestations in bits an and three years of age. In these cases a vermituge and three years or age in these cases a verminge not only cleared up the discharge but also releved the general symptoms ISAAC AADRESSIFE VID

#### **OBSTETRICS**

#### PREGNANCY AND ITS COMPLICATIONS

Jonas, A.F., Jr. An Evaluation of Signs and Symptoms in the Diagnosis of Extra-Uterine Pregnancy A Review of Ninety Cases Vew Lnglaid J. Med., 1933, cciv, 1324

Ectopic pregnancy occurs slightly more often in

the right tube than in the left

The most constant and important symptom is pain. In the typical case, irregular colicky pain in the lower abdomen occurring over a period ranging from hours to weeks or a mild sense of distress or discomfort is followed by severe pain of sudden onset. The severe pain is sharp and knife-like, colicky, or of a bearing-down character like the pain of labor Radiation of the pain is infrequent.

Although most textbooks state that amenorrhoan is a feature of the condition, bleeding occurred at some time in 90 per cent of the cases reviewed. The blood was usually fresh, and occasionally there were gushes of bright red blood. The bleeding often

resembled the normal menstrual flow

Vomiting distinct from that of morning sickness occurred in about one-fifth of the cases. Tenderness in the hypogastric region, vaginal tenderness, and pelvic masses were present quite regularly

In the acute cases, that is, those operated upon within forty-eight hours, the onset of the acute pain was usually marked by recurrence or an increase of the flowing. The pain was often excruciating and there was marked tenderness. Examination seldom revealed a palpable mass, but disclosed spasm and frequently shifting dullness. Signs of acute blood loss, such as air hunger, a rapid pulse, sweating, and apprehension, were limited to this group of cases. The white blood-cell count was considerably elevated, varying from 9,000 to 37,000 and averaging 18,200. There was usually a slight rise in the temperature.

Charles F. DuBois, M. D.

Fikentscher, R Investigations of the Porphyrin Content of Human Amniotic Fluid (Untersuchungen ueber den Porphyringehalt des menschlichen Fruchtwassers) Arch f Gynaek, 1933, cliv, 120

The increased occurrence of porphyrin during fetal life and its relationship to the growing organism, the presence of coproporphyrin in the meconium, and the affinity of uroporphyrin for developing bone have attracted the attention of obstetricians Since porphyrin can be demonstrated in the amniotic fluid of animals, the question arises whether it is present also in human amniotic fluid and, if so, in what concentration and at what periods of gestation

For making quantitative determinations the author has developed a special method based upon

measurement of the luminescence—The determinations made with the photometer (Stufenphotometer) are of importance because of the low concentrations. The prerequisites of the method and its sources of error are discussed, and a description of the technique is given—One hundred and twenty qualitative and 107 quantitative determinations were made

A porphyrin pigment could be demonstrated qualitatively in human amniotic fluid identical with coproporphyrin A search for other porphyrin compounds was unsuccessful The content of porphyrin varied definitely during the course of gestation At the beginning of embryonic development it could not be measured, and at the end of gestation, no porphyrin could be detected in the majority of cases. The highest concentration was found approximately at the middle of gestation Computation of the absolute content in relation to the amount of amniotic fluid showed that the total amount also undergoes a relative decrease during the last months of pregnancy The studies appear to show that porphyrin does not have its origin in the fetal urine. Its source, fate, and role are not GUENTER K F SCHULTZE (G) yet explained

Slobozianu, H, and Herscovici, P Placental Transmission of Gonococcic Infection to the Fetus (La transmission diaplacentaire de l'infection gonococcique chez le fœtus) Gynec et obst, 1933, vivil, 601

In the literature on the problem of heredity of infections no mention is to be found of placental transmission of gonococcic infection. However, there are reports of cases which demonstrate a congenital transmission of this infection and afford an explanation of a series of disorders that would otherwise remain unexplained.

In 1911, Leidenius reported the case of an infant ten days old who suffered from gonococcic arthritis with gonococci in the articular fluid. The child had no ophthalmia nor any other mucosal localization of the infection. The mother had gonococci in the

Iochia

In 1924, Finkelstein, citing the works of Noortrom, Lind, and Vasseu, admitted that, in rare instances, a gonococcic pyæmia might be transmitted to the infant during intra-uterine life

In 1925, Fischer reported a case of gonococcic arthritis without an evident portal of entry and ad-

mitted a placental transmission

Knauer, in 1925, reported a case of gonorrhœal rheumatism in an infant seven days old without ophthalmia or vulvovaginitis. He concluded that in this case the bacteria had passed through the skin

Hellmann, in 1925, reported the case of a boy born by casarean section who, four weeks after birth.

descloped a very severe form of gonococcic poly arthruts which terminated fatally. The Duttal of the shadow and entry could not be discovered as the mother did not have an evident gonococcic septicemia pla In an infant tyche days old kosinch Jokatch

In an mant vene case on Assuce possure in 1930 discovered a pronocecte polyathritis with 1930 of the mother showed the first that the polyathritis with 1930 of the mother showed. The cretification of the mother showed in the cretification of the cretification o

lesides p) amas with clinically evident septic for such as arthritis pregnant women may suffer from transitory bacteriaxins that pass unperceived and jet are capable of infecting the fetus

Pohl believes that the fetus may become infected

by penetration of the gonococci from the vagna into the amnostic fluid by may of the fetal membranes ne amniotic must up way or one retail memoranes.

Besides the early arthritis of infants a late desires toe early artificus of minaris a late gonorrhead arthritis may become manifest at the end of about three months In 1900 Holt observed dute on count three morning in 1990 that observed quite an epidemic of genococcic arthritis (thenty four an epicienic of gonococci archites (check, too, cases) in a children a hospital Although no gon occer could be demonstrated in the mouth the was or the opinion that the infection occurred by wall or me opinion mar the interior occurren by 843 state buccal mucosa. In 1927 Cooperman reported an epidemic of gonococcic arthritis and suggested that the infection may have occurred by way of

Smilya believes that the organisms enter the body by say of the conjunctiva and pass through it without causing ophthalmia Brentano is of the opinion that gonococcie septicznia is sometimes due

The authors have observed six cases of gonorihoral The authors mave poserved six cases or gonotinocal rheumalism. In pregnant somen during the last months of pregnancy Three of the women had montos or pregnanty ance or the women nad children with symptoms of polyarthmis. In two of the cases the child had no ophthalmus or other the cases too cumu nate the opportunities of ourse localization which might have served as a portal of centry. In the third case the occurrence of very cutty in the time case the occurrence of very septicamic symptoms during the first days sercre separacume symptoms ouring one case was a of the summaneously area are development or ophthalmia led the authors to conclude that the oparoassus see the actions to commune that the polyarthritis has related to the rheumat sin of the posteriories was reserve or the incumation of the mother rather than to the ophthalmia. Three cises mother rather than to the oppositations three cases are reported in detail. In the first case the mother descloped a gonormoral arthritis four days before delivery and the cond tion progressed in spite of a dentery and the cond dum progressed in spite of a month of freatment. The infant born at term was month of treatment. Inclinate born at term was consentially weak (hypotherms electrodems and loss of weight) but had no ophthalms. Themy are the consentration of the consentrati days after birth it developed polyarthritis and on days after pirth it descriped popartinitis and on the twenty bith day after birth it died Gonococo were found in the pus of the articulations

In the second case the mother developed mon at the section case the mother acteroped mon articular gonorrhoral rheunatism two weeks before attrement generatiness recumation two weeks before delivery. The infection de cloped without fever On the tenth day after outh the infant developed polyarthritis without severe local involvement and por stenents without severe today involvement and without senious involvement of the general health

in the third case the mother devel ped febrile an one came case one manner us of ped retries goestrhocal polyatticular theumalism during the

last month of pregnancy and the condition con tast mount of pregnancy and the condition con timed until delivery. On the third day of life the unuen unio denvery vo me unio dey vi me me maant developed gonorrheed ophthalmia with high feser and severe general involvement A februle Konococcic polyarthritis developed on the eighth day and began to improve on the (wenteth day

from these cases it appears that there is some them. atton between the severity of the infection in the mother and the infection developing in the infection developing mother and the intection developing in the formal After birth there was a period of pure gonococcie splicema nithout metastatic localization which Septitenna without increasative increasania winen lasted eight ten and twenty days in the three cases respectively. In Case 2 in which the infection in respectively in case 1 in water one intertion in the mother and child was beingn this phase re mained latent. In the two other cases it 1 as charac tenzed by fever and loss of weight. This initial dericed by sever and soss of weight Anis initial Deriod is followed by a stage of multiple metastates period is followed by a stage of multiple intriastases (arthritis abscess) during which the general conditions of the second conditions of the sec tion becomes more grave One of the infants devel oped a cholentorm standrome ending in death. If open a constitution syndrome ending in season and articular attacks do not supervene the feter subsides and the general condition improves

Boschetti M

ichetti M. Y. Ray Diagnosis of Intra Ut rine morte of a uterma del fetto). R. v. nul. d. f. ca d. o. v. nul. d. f. ca d.

The author's experience in the diagnosis of intra the suring a experience in the magnitude of intermediate death by means of the Spalding sign 1 c overlapping of the autores has not been partied Octasphons of the sources has not been prices laily satisfactory. He mentions that Kehrer among there is also convinced that this sign is not infalling

Three cases with aumerous roentgenograms are presented for the purpose of evaluating the changes occurring after fetal death The following changes Recended (1) deformity of the fetal skull (2) at p here noted to decorately of the term should be any of called attitudes and (3) rigidity and torsion of the

Deformity of the fetal skull especially dislocation or sublication of the crainal bones at their respect or summarion or the cramin comes at their respective articulations was found to be the most reliable tree author attaches considerable importance to this abnormality whenever it appears in the roent to this approximately natural error appearance on the second and states that its absence does not prove settings and out strates that its assence to es one profite fettis to be still alive George C Fivola MD

Dieckmann W. I. and Wedner C. R. 77 Blood Normal Is annow J. Blood and I blood not the state of the state of

Previous reports on the blood and plasma volumes in pregnancy are at variance with each other and are inconclusive because of the difference in the methods used and the calculation. The volumes are rectified used and the Calculation And volumes are reported in Cubic Continueters per Allogram of the reported in cuoic continueurs per Ausgram or an extensive to the continueurs per Ausgram or an extensive to the continueurs per Ausgram or the continueurs Percentage of body weight cities of mana as an telephologous of the constant change in the

The authors made determinations of the blood

and plasma volumes in various groups of somen in different periods of pregnancy The number of cub c

centimeters per kilogram and the means for the different periods were calculated Although there is a slight increase at term, statistical analysis in-

dicates that the changes are of no significance The findings of similar studies in which the same women were followed throughout pregnancy and the puerperium are summarized as follows

I The blood and plasma volumes begin to increase in the first trimester By the thirteenth week the gain amounts to 16 and 18 per cent, respectively

? At term, the average increase in the blood volume is 23 per cent, and the average increase in the plasma, 25 per cent This change is designated as an "oligocythæmic hypervolemia" the increase seems large, losses of 700 c cm or more of blood are at once manifested in measurable reductions in volume The pregnant woman survives losses of blood which would be fatal to the non-pregnant woman, partly because of the increase in blood volume, but more particularly because of the tremendous amount of fluid in her tissues

3 Light weeks after delivery there is an average decrease of 16 per cent in both the blood and the plasma volume This does not quite equal the increase, but as most of the women weigh more after pregnancy, the discrepancy is explained

4 The increase in the blood and plasma volume is not merely to fill vessels, but probably a part of the mechanism required to permit proper fetal respiration Browne, F J

CIRL H DAVIS, M D Toxamia, with Special Reference to the Order The Early Signs of Pre-Eclamptic of Their Appearance and Their Interrelation J Obst & Gynec Brit Emp, 1933, A, 1160

Browne reports a study of 320 toxic patients observed in the course of a year in the clinic and ante natal ward of the University College Hospital, Hypertension (130/70 or over) was the earliest sign in 75 per cent of these cases and the sole evidence of to a mia in 56 per cent (Edema was the earliest sign in 43 per cent and albuminuria the carliest sign in 3 per cent of the cases Hence, while hypertension is the earliest sign in the majority of cases, it does not necessarily precede the other manifestations and the cases are preceded to the control of the case of the c festations and the evidence does not prove that it is the cause of either adema or albuminuria blood-pressure rise early in pregnancy followed by a more or less prolonged interval of normal readings is considered by Browne a warning of future perma HENRYS ACKEN, JR, WD

# LABOR AND ITS COMPLICATIONS

Ssolonjen, W Manual Removal of the Placenta (Ucber die manuelle Placentaloesung) f Geb irish u Gynaek, 1933, vev, 34

I comparison of present day statistics with old statistics shows that the mortality after manual removal of the placenta has fallen from between 10 and 14 per cent to between 1 5 and 2 per cent. The

morbidity, however, is still high, from 20 to 30 per cent The decrease in the mortality is doubtless due to the fact that in former times manual removal of the placenta, because of its danger, was performed almost exclusively in the cases of exsanguinated and moribund women Moreover, in the computation of the mortality neither the condition of the patient nor the associated operation with its own mortality rate were taken sufficiently into account

The author has collected statistics from Russian clinics concerning the frequency of manual removal of the placenta during the period from 1883 to 1918 and from 1919 up to the present time In the first period the placenta was removed manually in 2,912 (0.95 per cent) of 304,192 deliveries, and in the second period in 2,527 (r 4 per cent) of 179,717

deliveries The majority of Russian obstetricians ascribe the frequent practice of manual removal of the placenta to the frequency of abortion in the United States of Soviet Russia (damage of the uterine musculature, destruction of the uterine glands, infection of the uterine cavity) In the author's opinion, an equally important cause is the increasingly active management of the third stage of labor

In a series of tables arranged according to different points of view, the author presents his own statistics on manual removal of the placenta performed in 150 (2 per cent) of 7,470 deliveries occurring during the years from 1926 to 1931 He found that the factors which increased the incidence of manual removal of the placenta included (1) previous abortions, (2) increased age of the women, (3) the number of antecedent pregnancies, (4) operative delivery (manual removal of the placenta was done in 23 4 per cent of the operative deliveries and 66 per cent of the spontaneous deliveries in the home) and (5) premature delivery While manual removal of the placenta appeared to be indicated in 2 35 per cent of the entire number of cases, it was required in the cases of 10 (66 per cent) of the elderly primiparæ, 14 (9 4 per cent) of the cases of twin pregnancy, and 9 (6 per cent) of the cases of placenta prievia The Postoperative course was normal in 71 cases (48 5 per cent) It was much better in uninfected cases in which delivery occurred spontane ously at the clinic than in cases of operative delivery at the clinic, and was poorest in cases in which delivery occurred at the patient's home The gross mortality was 5 5 per cent (8 deaths), and the net mortality 2 per cent (3 deaths) The author deducted I case each of typhus, croupous pneumonia, and sepsis in which the disease was present at the time of the woman's admission to the clinic and constituted the indication for the manual removal of women who came to the clinic in a state of complete He deducted also the cases of 2 eysangunation and died respectively twenty and seventy minutes after manual removal of the placenta Of the remaining 3 patients, I died of embolism and 2 of sepsis

Manual removal of the placenta is a dangerous operation Therefore the indications must be estab

h hed carefully. The primary indication is harmor thage. In the absence of hemorrhage in cases of range in the absence of almost hage in cases of retention of the placenta, the period of expectancy

#### PUERPERIUM AND ITS COMPLICATIONS DIETEL (G)

#### Bohdanowicz Z and Jasifiski T

noanowicz / and Jasinski 1 Ange obic bac teria n the Blood n Pu rperal Inf ctions (An e be k m im Blut b puerp alen Inf ctions (tion n) G k p l k 1933 AU 454 The authors made a bacteriological study of the had authors made a natternousical study of the blood according to the method of Boez in ninety one

of which the cond tion followed delivery and in four of which it follored abortion—the perfingens of which it rough to appring the perinngens (Welch Fraenkl) bacillus i as found. In one case (Victual reaction) decisions y as sound an one case the bacillus porogenes y as found in addition Bacteriolo teal studies for any robic bacilli in these cases revealed the staphylococcus albus and the

streptococcus hamolyticus in one case each the cases of infection due to anaerobic bacilli there are cases of misection one to anaeronic pacini there were no s) imploms essentially different from those of analogous infections due to aerobic bacilli. In of manageds infections due to aerobic baculi in a the blood may be the cause of severe disease of a it the blood may be the cause of severe unbase of septic character whereas in others it may be only separe character whereas in others it may be only the manifestation of a transitory bacterizmus. The the instance and of a transitory pacterizating time thod of Boez facilitates also the detection a the blood of bacteria with the characteristics of figuration of various men end the characterists of figuration of staphylococcus strepto coccus)

The authors employed different methods of treat and the authors employed unificate intrinous of treat in two cases an attempt at specific treat ment was made with intramuscular injections of near was made with managemental injections of SO CCM of anti-perfiningens serum. As a cure was obtained in both of these cases in spite of the severe Course of the disease the authors believe that treat course of the disease the authors office that treat ment with specific serum is indicated in puriperal fever caused by a robic bacilla

# GENITO-URINARY SURGERY

# ADRENAL, KIDNEY, AND URETER

Henline, R. B. Fraumatic Injuries of the Upper Urin ity Friet Following Instrumentation

The author believes that instrumental rupture of the ureter following intri-ureteral manipulation is less rare than the literature indicates. He reports two required nephrectomy because of severe infec-Three required surgical drunage and tion of the kidness. In the remaining four, recovery tollo ved pallittive treatment

In experiments on dogs it was found impossible to rupture a normal ureter by forcetul dilatition or by forced syringe injection in retrograde pyelography When the wreters of three doss were foreible ruptured with a silver wire, both retrograde and exerction urography demonstrated extravasation ureter of one dog punctured by a fine wire fuled to show extravasation in the intravenous urogram

Henline concludes that excretion urography will indicate the evistence and extent of gross injury to the ureter and serve as a guide to surgical treatment

Lichtenberg, A von Excretory Urography (L urography of class total)

riphic (Acretice) J. d. trol. mid. cl. cl. r., 1933,

The author prefers the term "excretory urography, for the method he introduced four years ago to the terms "descending py clography," and "intravenous pyelography because the litter do not indicate the nature of the procedure The method is not merely an anatomical demonstration of the kidney pelvis It is a true physiological test of kidney ney function by excretion whether the contrast is administered intravenously, by rectum, or by mouth The program differs fundamentally from the py elogram obtained by ascending pyelography The author believes that ascending Pychos and he call, a filling prography by clography should be called "filling urography"

A disadvantage of the rapid acceptance of the author's method has been its use in cases in which it was not indicated Some investigators have claimed that the contrast medium may not be excreted even by the heilthy hidney, but the author maintains that the contract substance is aliminated by any that the contrast substance is eliminated by any

kidney in proportion to its capacity for elimination The contrast medium has been found to be elimnated largely by the glomeruli There is only a slight absorption by reflux of the substance through the tubules I herefore the test is an excellent one for demonstrating lesions of the glomeruli using the method in more than 5,000 cases over a period of more than three years the author is convinced of its value as a test of kidney function

Exerctory urography is indicated absolutely in Cases in which alling growthy is difficult or impossible for anatomical or technical reasons, in those in which filling prography is negative or the pictures are not clear, and those in which filling urography may aggravate the condition and may be dingerous It is indicated relatively in cases in which I general view of the whole urin ity tract is desired, class in which information is sought with regard to tonus or a disturb ince of the dynamics of the urming trict, cises of retention in which it is desired to determine the mode of evacuation of the exerction trict, and cases of disease of the adness in males and temples in which the effect on the urmary tract must be determined

Lacretory urography is not of value for the early diagnosis of kidney tuberculosis is slight defects in filling or in the outline of the calvees may be due to other causes In advanced class it shows the extent of the lesions It is of the greatest importance in non specific affections of the kidney such as acute suppuration and chronic pyclonephritis Simple changes of tonus can be differentiated from an itomical lesions and definite dilatitions. I rom the condition of the wreter it is possible to tell whether the dise ise of the kidney is primary or second iri and to establish the indications for operation. The special field of exerctory urography is lithiasis, both from the point of view of prognosis and that of indications for conservative operation. In cases of tumor of the kidney the procedure is of value only in conjunction with other methods of examination In cases of tumor of the bladder it often gives better pictures than cystography because there is no irritation of the bladder by the filling In cases of retention of urine it is of very great value because it shows not only the anatomical condition but also the nature of the process Often the retention is duc to 3 functional change brought about by changes of tonus which can be overcome with restoration of normal function. In true hydronephrosis the essential factor is not the sac the manifestation of a compensatory functional process to protect the kidney against inevitable hypertension, it represents the adaptation of the muscle to the changed capacity for climination of possible in this condition in essential part of kid-Therefore conservative surgery is ney retention is a disturbance of innervation Sometimes normal evacuation can be restored by de-

Ravasini, C MOREY GOSS MORGIV, MD excretice) I dural med cl chir, 1933, XVVI, 404 Excretory Urography (L'urographie Ravasını prefers the term "excretory urography" Cycretory

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utography is an essentially physiological method urography is an essentially physiological method which in the majority of cases gives valuable infor waten in the majority of cases gives valuable information with regard to the anatomical and func mation with regard to the anatomical and inuc-tional condition of the kidneys. It shows the tional condution of the kidneys. It shows the secretory capacity of the frend parenchyma and the mounts of the ureters and pelvis. The contra the moutify of the ureters and pelvis the contra indications are limited to serious insufficiency of the indications are limited to serious insuluciency of the kidneys or liver—If the kidneys are functioning well hidneys or liver II the kidneys are functioning well the shadow of the hidney pelvis and victor appears within five minutes after the injection and that of within the minutes after the injection and that of the bladder within from fifteen to twenty minutes

the olador within from inteen to twenty minutes. The greater part of the contrast substance is eliminated in from an hour to two and a haif hours liminated in from an hour to two and a hair nours Caution must be used in interpreting spots in the caution must be used in interpreting spots in the parenchyma as these are not conclusive unless they pareneuvma as these are not conclusive unless they appear constantly. When they are constant they appear constantly When they are constant they suggest a tuberculous cavity not communicating suggest a tuberculous cavity not communicating with the pelits. In fifty cases of tuberculous in with the perits in fifty cases of tuberculosis in thich such spots appeared the presence of a cavity aconfirmed by operation

as confirmed by operation Lichtenberg and Heckenbach say that the alter Lichtenberg and deckenbach say that the after nate movement of contraction and dilatation of the nate movement or contraction and quatation of the pelvis can be seen on the utogram, but the author has pet is can be seen on the urogram out the author has noted that there is some not observed it lie has noted that there is some times no contrast shado y even when the lidne's are times no contrast shado y even when the kidneys are normal. This does not mean that the kidney does normal. Anis does not mean that the same open not of minate the contrast substance it chiminates not en minate the contrast substance it eniminates this substance in proportion to its capacity for this substance in proportion to its capacity for climinat on Among the various causes for failures of the diversals for the contract of the co diuresis h) pertonicity and inding of the sidney by meteorism. The bladder shadow series as a control meteonsm ine bladder shadow serves as a control sho ing that the contrast substance has been

Amazica From Aperiments on frogs Hughes and Petern From aperiments on trogs rivigoes and reterior concluded that prosedectan is eliminated particularly by the glomerul. Von Lichtenberg therefore con b) the giomerun ton Lichtenoerg therefore con cluded that ur selectan is particularly adapted to ctuded that at selection is particularly and the dem natration of lesions of glomeruli the nem natration of lessons of glomerum from nata on rabbits. Di Maio concluded that it eaumnated cateny by the tubules
The different methods recommended for judging

renal function by excretory prography such as the renal function by excretory prography but as the unner quantitative determination of found in the united as a complicated and of no practical value deduc a e computateu and of no practical value usuace tions in regard to function must be made from the toon in regard to function must be made from the focutioning ams and they are not always reliable. The author reports cases in which the programs are author reports cases in which the programs suggested enormous dilatation of the renal pelvis auggeneu enormous quatation of the renai persiand ureters but operation showed normal condiand decies out operation above normal conditions. In experiments on the isolated uneter of the tions in experiments on the isolated ureter of the dog. Mingers found that the ureter reacts to con tog tingers wind that the uterit reacts to we trast substances by changes in form and size. trans substances by thanges in torm and size bloodi and droselectan have a different effect Therefore in the interpretation of the urogram it is important to know which was used

on Lichtenberg believes that the density of the shadow depends on the degree of kidney function but the author has not found this to be true. He but the author has not sound this so be time and states that the density of the shadow may depend Makes that the occasive of the susmow may opposed on catrarenal factors. It is important in judging on extrarens, factors. At it important in Judging function to know the time that elapsed between

the injection and the appearance of the shadow how the injection and the appearance of the shadow how how the shadow persisted and when it disappeared long the snatow persisted and when it disappeared Only a positive kidney shadow has a functional Only a positive kidney shadow has a functional value if there is no kidney shadow conclusions must be drawn from the basion of the ureters and must be drawn from the snagow of the ureters and bladder. A distinct bladder shadow shoas that the ounder a distinct plagger snagow shoas that the Lidney is functioning whether the Lidney shadow appears or not

ppears or not Excretory prography is especially adapted to the Lacretory urography is especially adapted to the study of the late orthopedic and functional results study of the tate orthopeute and inneriously fessions of conservative judge; surgery Conservative opera or conservative singers surgery. Conservative operations on the kidney do not injure but on the con toos on the kidney do not injure but on the con trary improve kidney function

Exercising the particularly important in In his drone

Excretory urography is particularly important in anomalies of the kidney and ureter in by drone anumanes of the kidney and prefer in hydrone phrought gives a more accurate picture than ascend Parous it gives a more accurate picture than ascena ing pyelography and often furn shes indications for ing p) elography and often into sees indications for conservative operation. Its value in lithiasis is vell conservative operation. Its value in lithius is venturing. Calculi invisible to ordinary roentgenog Anown Carcus invisione to orumary roenigenog raphy may be rendered visible in renal tuber raphy may be rendered visible in renal tuber culosis it is very useful and sometimes indispensable culosis it is very useful and sometimes inhopensative particularly as ascending pyelography is often im particularly as ascending pyelography is often im-possible painful or dangerrous in this condition Correct interpretation of the toentgenograms re-Correct interpretation of the toentgenograms re-quires experience Details that would escape the quires expenence Details that would escape the ordinary practitioner are clearly evident e) e or the ordinary Practitioner are clearly evident to the specialist In cases of renal tumor the method is often insufficient for diagnosis

Ward M.R. Exer tory Uropraphy (Lur 6 phecorphic for trace) Jan 1 mid 1 h 933 zet 1 471 The author has used excretory urography since

1929 It makes possible a study of the activity of the 1929 It makes possible a study or the activity or im-lidney and ureters under conditions that are per-Adney and arriers under conditions that are per feetly normal except for the secretory stimulus re rectly noting except for the secretory stimulus re sulting from the injection. Care must be taken to suting from the injection. Care must be taken to present pressure on the wreters while the roomgenopresent pressure on the precess white the rocargeno-grams are being taken as it interferes with physio grams are being taken as it interieres with parson logical conditions. The upright position is stretch Jogical condutions Inc upr ant position 14 sincisis physiological but as in this position the normal peries and ureters drain quickly and the shado va pervis and ureress disting the Chry and the shadows are sight the configurations are usually faken are sugar the roentgenograms are usually taken with the patient bying down. It is a good plan to place the patient in the Trendleinburg Doublin for a start time for a start the foreign and prace the particular in the Frenchemburg position in a short time fifteen minutes after the injection and a short time after minutes after the injection and make a roentgenogram, then reverse the position make a roentgenogram then reverse the positions with the feet down and make another roentgenogram five m nutes later

sam nye m nutes fater Of the senal roentgenog ams those taken five Of the serial roomigenog and those taken are minutes after the injection are if e most valuable f ? minutes after the injection are it e most valuable? I general information. The normal callogs are to the state of the stat general information the normal catyers and pelvis are viable at this time. Therefore of a shad w pervis are visione ar this time sosence or a snau windicates retardation of excretion. If there is partial Additional relations of exerction. At there is partial and most intense shadow is so in after half an stasis the most intense shaulow is so n atter half as hour. Slight and changing shadows appearing early nour ought and emaging amount appearing early are an indication of normal function. Dense shadows con tant in form are not Dense anauowa con tant m torm are no normal they indicate normal secret on lut mater ference with evacuation Shadons that appear late terence with evacuation obasions that appear rate indicate interfer nee with secr ti n \ \ uteler filed throughout its length indicates loss of tonus

The method is particularly valuable in cases of calculus, hydronephrosis and tuberculosis

In the discussion following the reports of Von Lichtenburg, Ravasini and Ward, Lasio said that descending urography is of great value only in cases of quite marked morphological changes. In the early stages of tuberculosis and tumor the pictures are not sufficiently clear for diagnosis. The procedure shows whether a kidney is functioning but not whether it is capable of taking over the function of the other kidney. Separate examination of the urine from the two ureters is necessary for this

Dos Santos stated that excretory urography is the first method of urological examination that should be used systematically It gives information regarding the morphology and function of the kidney which is sometimes sufficient to establish the prognosis and indications for operation However, as the picture depends on elimination, it may not be sufficiently clear if elimination is abnormal Under the latter condition, ascending pyelography may be necessary For finer details of function it may be necessary to use chromocystoscopy, phenolsulphonphthalem, and catheterization of the ureters However, the systematic use of excretory urography greatly limits the necessity for ascending pyeloscopy and catheterization of the ureters. A valuable supplementary method is arteriography by the injection of uroselectan or abrodil into the aorta, which gives a picture first of the abdominal aorta and then of the kidney pelvis

Chevassu emphasized that, in spite of the great interest in excretory urography, this procedure cannot replace the determination of azotæmia, the determination of the constant, and catheterization of the ureters in the study of the function of the kidney, or ascending pyelography in the study of the

anatomy of the kidney

Lefoutre said that excretory urography is extremely valuable when it is positive. It may show a hydronephrosis, a ptosis or abnormality of the kidney with much less difficulty and chance of error than ascending pyelography. When it is negative, that is, when it does not produce a shadow on the painful side, ascending pyelography must be used. It is of great value in renal tuberculosis if its results are interpreted with care. In cases in which catheterization of the ureters is impossible it may render a double exploratory lumbar incision unnecessary. In cases with a poor constant it may confirm the existence of bilateral lesions and show the nature of the changes in the two kidneys.

Bruni stated that excretory urography does not take the place of other methods of examination of kidney function. While it is not dependable in early tuberculosis, it is of value in cases in which catheterization of the ureters is impossible as it permits diagnosis without exploratory incision.

PASTEAU said that excretory urography is an excellent exploratory method for determining what later methods of examination are necessary. The

time of appearance and disappearance of the shadow gives valuable information in regard to the secretion of the kidney, and the way in which the shadow of the pelvis and ureter disappears shows the conditions of excretion in kidney and ureter Theoretically it should be superior to ascending pyelography, but sometimes the shadows are too pale

OECONOMOS reported that in 80 per cent of cases excretory urography gives a more or less distinct picture of the kidney, pelvis, and ureters, but the picture is not so clear as that produced by ascending pyelography It shows disturbances of elimination rather than secretion of the kidney, for if secretion is normal and excretion is interfered with the pictures are very clear

Casper stated that excretory urography cannot be substituted for ascending pyelography and is not always rehable as an indicator of kidney function. In cases in which elimination is interfered with the shadow may be very dense when the kidney is seriously diseased, and if the pelvis is insufficiently closed so that it is always empty there may be no shadow when the kidney is normal. If the picture is taken during systole of the pelvis the pelvis will appear very small, whereas if the picture is taken during diastole there may be no excretion of the opaque substance though the kidney is normal.

BEER said that excretory urography does not give as clear pictures as ascending pyelography. It is necessary in cases in which cystoscopy and catheterization are impossible and may be of value in clearing up certain obscure abdominal conditions.

CIFUENTES emphasized that a great deal of the value of excretory urography depends on the interpretation of the urograms. The most valuable roentgenogram is the one taken five minutes after the injection.

PASCUAL discussed the indications for excretory urography in renal tuberculosis on the basis of 289 roentgenograms taken in 163 cases

PASCHAIS presented urograms of cases of pyelitis, nephrolithiasis, and cystic dilatation of the ureter AUDREY GOSS MORGAN M D

Chabanier, H, and Lobo-Onell, C Elimination Urography and Comparative Estimation of the Function of the Trunction of Trunctio

This article is a discussion of the question whether intravenous pyelography meets all requirements for the determination of the comparative function of the two kidneys. As a rule the function of the kidneys is estimated by comparing (r) the pyelo-ureteral shadows (von Lichtenberg), and (2) the time of appearance and disappearance of those shadows (Ravasini)

In the authors' opinion the method is open to numerous objections. The two chief objections to it are based on the following facts (1) the concentration of the opaque substance is influenced by anything interfering with the flow of urine (e.g., ob-

structs n at the ureteral orifice) and (2) the depth structi n at the ureteral orance) and (2) the ceptus of the column f urine in the ureter is variable de or the column t urine in the ureter is variable de pending upon the degree of diuresis and the rate of flor in the ureter

on in the ureter.

The authors conclude that when urete al cathe. Ane authors conclude that when urete al cathe terization is practicable it should be done especially terization is practicable it should be done especially as it makes bacter ological information available at

Me tz II O and ilam r II G The Lateral Iyelog am An Investigation f Its Value in

In urological diagnosis the authors make a lateral in aronogical diagnosis the authors make a lateral pyclogram to obtain information supplementing Decogram to outain information supplementing that Helded by the anteroposterior film Standard that lieueu by the ameroposition; this Standard pyclographic media and methods of injection are

sed Satisfactory lateral pyelog ams permit a study of Satisfactory (aterat p) elog ams permit a study of the vertical position of the kidney disclose any rota the vertical position of the kidney disclose any rotation or anter posterior displacement of the kidney tion or anter posterior displacement of the sidney and show the outline of the pelvis and the course of and and a time outside of the pervis and the course of the upper part of the ureter as it enters the pelvis the upper part of the ureter as it enters the peivis. They often lead to a more complete understanding Aney often feat to a more complete understanding of the pathological changes present and occasionally or the partitions car thanges present and occasionary confirm a differential dagnosis which would other HENRY L SANFORD M D

Taylor W N Carbuncle of the kidney A

Taylor reports a cas of ca buncle of the kidney and describes the condition sametastati harmat g enous localize i enal infection The condition | practically always closely asso

The condition 1 pract casts always closers associated 1 th an ofe thous 1 s on hich acts as a focus of blood stream mason In 70 pe cent of the or blood stream mas on an 70 per cent of each of the grant of the gran ninet) in e reporteu cases i wa to ugui to be secondary to a skin infect on and in 10 per cent secondary to a sain innection, and in to per cent was attributed to a respiratory dental or glindular cond tron

it p actically all vs due to the staphylococcus au eus I ath logically the les on is primarily one au eus tain iogicait) the tes on is primarily one of multiple foci of inf ct n f the interstitial tissue of the kidney The treatment is surgical

HARRY W PLA GENETER M D

## BLADDER URETHRA AND PENIS

Hortol mei N and Katz Galat I T A Contribution to the Study of Urethrography (C nt b Alétud d l th K ph e) j d

The auth s state that u ethrography is capable Assessment a state that a confography is capable f giving much information that cannot be obtained b) ordinary methods of urethral examinat on such of ordinary methods of dictinal chammat on such as the use of bong es and sounds and urethroscop as the use of boug es and sounds and preinfoscop examination The cont ast medium must be uffi examination the contrast medican must be undirection cientry rac o opaque to give aucquiste vi uaireavon climinable by the normal channels miscible with urne easy to prepare and n n toxic It must not urine casy to prepare and it in xoate it must not be a su pen ion which forms a precip tate. The subbe a surpen ion which ionits a precip take the successions best meeting the e requirements are thoro trast and uroselectan

The urethrograms are made by it o methods the The treturograms are made by to o methods the ascending and the descending. In the descending ascending and the obscending th the descending method the dye proselectan is given int avenously nietaou tue aye prosedectan is given int avenously and when the patient experiences a desire to prinate and when the patient experiences a desire to urmate a roentgenogram is made as the dje accumulated in a roentgenogram is made as the die accumulated in the bladder flows out. This is done with the patient the bladder nows out 1 his is done with the patient in the lateral position so that the penis can lie along in the lateral position so that the penis can lie along the surface of the plate. The legs are so arranged the surface of the plate. The legs are so arranged that they will not overshadow the u eth a. In the that they will not overshallow the u eth a 111 the ascending method the uroselectan is introduced into ascending method the uroselectan is introduced into the penis under gentle but definite pressure No automatic devices are employed. When exploration automatic devices are employed When exploration of the anterior urethra is desired the fluid is intro or the antern r ureinta is desired the unit is intro duced under a pressure which is not sufficient to outer under a pressure which is not sun tient to overcome the resistance of the sphincter. When the overcome the resistance of the spaincter when the posterior wrethra is to be explored a somewhat greater pressure is employed

reater pressure is empios ou Proper interpretation of abnormal images requires Proper interpretation of annormal images requires a knowledge of normal variations and considerable a knowledge of normal variations and considerable experience. When the bladder is emptied the shadon experience when the manager is empired the smanon will be found pear shaped the posterior urethra wat oe tound pear snaped the Posterior aretina dilating to form the small end of the pear. When the ouating to torm the small end of the pear some the injection is given from below the moderate pressure rayection is given from Delow the moderate pressure will cause a d latation of the bulbar frethra and be want cause a 0 interior or the output utering and or cause of its normal tonicity the posterior utering will be completely f ee from fluid Alteration of these

to pictures usually indicates pathological changes o pictures usuan) muicares parmonegicar changes Urethrograph) is of value in the study of urethral oretinography is or value in the study of dictions at ictures false passages dilatation and divertical st actures tause passages unavation and invertical incethral calculi abscesses of the weethra prostate Cowper's glands and seminal vesicles and ur nary

The authors belie e it should be used n all cases A ne autuois vene e it snound pe used it au cases of suspected stricture, even before the u ethra is expl ed with fil form boughes JOH W EPT V M D

#### GENITAL ORGANS

H itz Bover itz Boyer Di rticula Formation in the Prostate and D sease of th Neck of ti e Bi dd r Prostate and D sease of the Neck of the Bill do not be the Bill de Relationship Between The River of the the River He Etiot Rical Relationship Detween and Dive theular Format ons and Ch onic Hyp Die ticular Format ons and the onic hyper to ophic p stat it. St. n. i. of th. Ne. for the Bladder Dethild of the Bladder and The author calls attention to the granty I small

The author cans accoming to the gracity a small erricula in the prostate resulting f m infect in He believes that such d verticula can give rise to hr nic obstruct on resulting in dilatat on f the an me operace on resulting in quaration; and entile ut nary tract distation trabeculat n and the can many trace o matacon travecom a more liverticula formati, n in the bladde and d latation of the ureters and kidneys

The diverticula are generally due to vene cal infections which do not result n true p ostatic abscesses but cause such destruction of prostatic tissue that small cavities are formed. In some cases they are due to infection secondary to some other focus Whatever the source of the infection, drainage usually occurs through tortuous pathways and is inadequate. Under such circumstances secondary infection is very common, and with it the prostate becomes swollen and the prostatic urethra narrowed When the infection persists, the and tortuous entire prostatic area becomes hypertrophied and sclerosed The seminal vesicles are involved in the process and become the site of infectious foci

The symptoms are those of chronic prostatitis with polyuria, burning on urination, a morning drop, and symptoms due to the backing up of urine The diagnosis is established by cysto-urethroscopy and urethrography Anteroposterior, right oblique, and left oblique roentgenograms should be made They sometimes show the prostate to be shot through with diverticula which give it the appearance of a bunch of grapes

The author advises operation for this condition before it results in the serious consequences de-JOHN W EPTON, M D

#### Caulk, J. R., and Patton, J. F. Postoperative Complications in Transurethral Surgery J Am M Ass , 1934, cn, 117

By means of a thermocouple placed in various media and in the prostate glands of men and animals the authors measured the heat produced in the proximity of the various types of high-frequency currents used in transurethral surgery of the prostate and compared it with the heat produced in the tissues adjacent to a cautery punch used similarly Their findings showed that the heat of conduction from the cautery is insignificant while the induced heat produced between the two electrodes of a highfrequency current is sufficient to cause tissue death for a considerable distance from the loop These findings were confirmed by histological examination

The authors give statistics demonstrating that complications are more frequent and the mortality is somewhat higher in cases treated by transurethral electrosurgery than in those treated with the transurethral cautery punch They conclude that the instrument using a cautery current is the safest, and that the high frequency apparatus must be changed THEOPHIL P GRAUER, M D or discarded

#### Ferguson, R S Pathological Physiology of Teratoma Testis J Am M 4ss, 1933, ci, 1933

The author discusses the quantitative secretion of Prolan A in cases of tumor of the testicle The urinary excretion of Prolan A is determined by three factors (1) the embryonal characteristics of the tumor, (2) the stage of the disease, and (3) the re-

sistance of the disease to therapy

From the estimated number of units in the urine. the type of tumor may be determined. In cases of embryonal carcinoma, the urine contains from 2,000 to 10,000 mouse units, in cases of seminoma, from 400 to 2,000 mouse units, and in cases of adult teratoma, from 50 to 500 mouse units. In cases in which the excretion of mouse units is not affected by surgery or X-ray irradiation the prognosis is unfavorable, whereas in those in which the units decrease and subsequently disappear, good results are to be expected

Prolan A is believed to be produced by the basophilic cells of the anterior lobe of the pituitary gland

J SIDNEY RITTER, M D

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

Elliott G R

Chronic Osteom) elitis Presenting a ott G R Chronic Osteom) elitis Presenting Distinct Tumor Formation Simulating Clini cally True Osteogenic Sarcoma J Bo & 5 J ; 1

With few exceptions osteomyelitis in early child With lew exceptions osteomy entits in early child hood is diagnosed readily. Difficulty in the diagnonood is diagnosed readily only when the condition sis is encountered usually only when the condition occurs in later life. The perplexing cases are those occurs in later me, the perpiezing cases are those of rather slowly growing sarcoma and sclerosing

The author reports a case of a borderline condition and author reports a case or a normernne condition which because of the marked plasma cell reaction which because of the marked plasma cell reaction Ewing believed to be a chronic inflammation and de-Eving believed to be a chronic inflammation and d scribed as an osteomy elitic plasma cell my eloma

The importance of a very complete clinical history and a good roentgenogram properly interpreted is emphasized. Occasionally biop y is necessary at empnassed Occasionau) olop y is necessary at though it is generally believed that biopsy should be avoided if possible Biopsy should be done by the aspiration method or the punch method

MORMAN C. BULLOCK M.D.

Oberzimmer J The Formation of C reumscribed rezimmer J The Formation of C reumscribes Necroses and Sequestra in Os sous Tuber Accroses and Sequestra in Us cous Tuber culosis (Forma one di necr si ci c nitte e di equestri illa tub colo o sea) Ck di org

Whereas in progenic osteomyelitis the format on whereas in pyogenic osteomyeaus the format of of sequestra may be considered a s gn of resolution or sequestra may be considered a 2 km or resolution in osseous tuberculosis it is a part of the pathological process In ostcomychits it is the healthy tissue of process in osteomy eners it is the meaning trashe or regeneration which determines the demarcation and regeneration whereas in tuberculosis this is de sequestration withtean in tuberculous this is de termined by a specifically diseased granulation its sue Therefore it is apparent that in tuberculosis the formation of sequestra has nothing to do with the formation of sequences but represents a phase of

The author reports twelve cases of osseous tu the author reports tweive cases of osseous to berculosis in which large sequestra were formed While in most of them the condition was studied table in most or event the condition was strained treatment was given and the tis ue was examined The majority were cases of caseous tuberculo is This form of tuberculosis of bone produces not only central foci but also cunciform necrotic areas s mi lar to an infarction, in an articular extremity of a iar to an interction, in an articular extremity or a long bone such as the head or lower end of the lemur The cuncilorm foct are subchondral and usually represented by a more or less regular triangle with represented by a more or ress regular triangle with its base toward the articular surface and its apex its base toward the atticular surface and its apex toward the hony d aphysis. Occasionally the fort are

The genes s of these necrotic areas is not definitely the genes s of these necrotic areas is not dennitely understood. The morphological findings suggest a understood and morphological undings suggest a rather acute process. If these areas represented true rather acute process 11 these areas represented true infarcts there would be embolish some of the vessels or an obliter ting endarteritis would be found. The or an quatter ting engarteritis would be found. The clear osseous struc andings are not constant. The clear osseous structure of the circumscribed for may be explained by the rapid caseation of the involved area long before the rapid caseation of the involved area joing before the granulation tissue has had an opportunity to destroy the bony trabeculæ In the stage during destroy the bony transcents in the stage during which the necrotic zone retains its connects in with waters the necrotic zone retains its connection with the surrounding tissue the patient usually does not the surrounding tissue the patient usually does not consult the surgeon as there are no symptoms. As a consuit the surgeon as there are no symptoms. 13 a rule symptoms develop only when the joint surface is rute symptoms develop only when the joint surface is involved. In the development of the process an area is surrounded by itssue which is capable only of area is surrounced by ussue which is capable only of destroying bone and not forming it. The two areas bestroying none and net forming it the two areas then become very rapidly demarcated. This dethen occome very rapidly demarcated anis de-limitation but not complete separation of a necrotic numerion our not complete separation of a necrotic sone is associated with more pain and limitation of zone is associated with more pain and immeasure of funct on. The focus undergoes gradual resorption put as the process may require many years healing may take place before complete disappearance of the focus. In the process of healing the tuberculous granulation its te becomes replaced by a healthy granulation tissue The latter however lacks osteogenetic p operties This is manifested in the osteogenetic p operates and is manifested in an roentgenogram by intensincation of the clear en c cling rone. The necrotic bone series as a focus for new bone grot the In this vay repair seems to for new oone groven in this cay tepan seems to start. The entire process may be easily followed in the roentgenograms included in the article

In the treatment of the condition the location and natule of the process must be considered. Conserva tism should be the rule unless there has been a dis turbance of the joint surface Resection of the joint may be done to hasten recovery and rehabilitat on for economic reasons relieve pain and renaum ration chance of secondary tuberculous lesions

Allend G Bon Syphilis in the Second P riod f Ci ildhood (La ful s 6 ea en ] at 1 933 g nda fanci )

The author reports seven cases of bone syphils in the author reports seven cases or wome symmetric children from five to thirteen years of age and supplements the reports a th photographs and roent gen grams These cases differed in many respects f om cases of bone syphilis in young infant almost all of them the syphilis was activated by annox si of them the syphias was activated by trauma. The lesions corresponded to the e of tertiary sph is in the ad it. Three of the patients had a diffuse gummatous osteomyel tis ti o had a syphilitic by Persitosis one had the osteo arthritis described by Fournier and one had a wite is elling with enormous enlargement of the joint and suppura

tion but no bone lesions demonstrable on roentgen examination. One of the cases showed the leopard-skin roentgenogram of the epiphyseal form described by Lance and Huc, but the condition had invaded the epiphysis, the metaphysis, and the joint cartilage, resembling a malignant bone tumor.

The lesions at this age are most apt to be localized in the metaphysis and cause disturbances of growth. In the cases in which the joint cartilage was affected there was an increase in the length of the bone, and in two cases in which the tibia was affected without involvement of the fibula the tibia was very much curved and there was a marked pes valgus. In one case of syphilitic hyperostoses the length and thickness of the tibia were enormously increased.

Sequestra were formed in a number of cases Adenopathy was rare. It is generally caused by secondary infection. This is a point usually differentiating the condition from osseous tuberculosis. However, cases of true syphilitic scrofula with bone lesions have been described. One of the cases reviewed by the author was an example of this condition. As the Wassermann reaction remained negative there was doubt as to whether the condition was syphilis or tuberculosis in spite of the tendency toward eburnation of the bone. In such cases biopsy of the glands is of great aid in establishing the diagnosis

Suppuration occurred in five of the seven cases In most reports it is described as abscesses due to the breaking down of gummata which have no tendency to spread, a characteristic differentiating them from tuberculous abscesses. However, in some of the author's cases there were enormous abscesses with frank fluctuation and migration to the thigh. In one case they had their origin in an arthritis of the hip Most surgeons advise against operation for these abscesses, but the author finds that surgical evacuation improves the general health and shortens the time required for recovery. The serological reactions are frequently negative in these cases.

As a rule potassium iodide, bicyanide of mercury, and sulfarsenal were used in the treatment. In some cases bismuth and neosalvarsan were employed

AUDREY GOSS MORGAN, M D

Aguilar, J. G., and Maruri, C. A. Bone and Joint Syphilis (Sifilis osteoarticular) 1rch de med cirug y especial, 1933, xiv, 1403

This article is based on a series of eighteen cases of syphilitic arthritis and thirty-six cases of osseous syphilis

I'wo pathological processes, destructive and constructive, are combined during the development of gummata. The granulation tissue of the gumma infiltrates the bone, causing necrosis. At the same time the surrounding tissue is stimulated to produce new bone. The surface of the diseased bone thus appears irregular, roughened, and eroded, and the bone as a whole may be larger than normal. If the entire bone is involved, it may become hardened and thickened. As a result of excessive absorption

osteoporosis may result The abnormal fragility—osteopsathyrosis—may result in fractures

Among the cases reviewed there were twenty-five of acquired and eighteen of congenital syphilis. In both congenital and acquired syphilis periostitis frequently develops during the eruptive stage. It may occur simultaneously in many bones. Gummatous periostitis developing in the late stages of syphilis is characterized by chronicity and the size which the lesions attain. Large ulcers which discharge a mucoid, foul-smelling pus follow the regressive changes in these lesions. The surface of the bone may be denuded, and even dead bone may appear in the floor of the ulcer. Gummatous ostetits is frequently secondary to periostitis. An entire bone may therefore be completely destroyed.

Syphilis of the joints may be manifested as a synovitis or an osteo-arthritis. In the synovial form there are no characteristic roentgenographic signs. A chronic resistant hydrops may develop. The knee is involved most frequently. There is little interference with motion, and only slight pain.

The lesions of osteo-arthritis are varied Arthritis may follow the rupture of an intra-osseous or periosteal focus into the joint cavity. Articular cartilage may be destroyed. Flail joints or ankylosis with contractures may develop. They occur most frequently in the fingers and toes, the condition being then often confused with arthritis deformans. In the larger joints the condition may be confused with tuberculosis. Of fifty cases, positive serological reactions were obtained in forty-five (90 per cent)

Treatment with salvarsan and bismuth has yielded very satisfactory results in all cases

WILLIAM R MEEKER, M D.

Peirce, C B Giant-Cell Bone Tumor Some Considerations of Treatment Radiology, 1933, xxi, 348

The giant-cell bone tumor is a sharply circumscribed central tumor of bone in which large multinuclear giant cells predominate. These cells are distinguished from foreign-body giant cells by the central position of their nuclei. The tumor has a spindle-celled stroma and sometimes cystic spaces containing bloody fluid. Its growth is limited by the epiphyseal line, but after the epiphysis is closed, it may extend to the joint. Malignant degeneration may result from excessive repair activity.

From the standpoint of treatment the giant-cell tumor may be regarded as a benign but progressive metaplasia which may result in disability if it is not eradicated. Biopsy should not be necessary as the diagnosis can be made by roentgen-ray examination. The usual treatment has been curettage and cauterization, but many surgeons do not fully approve of this method. Especially when the bone involved is a weight-bearing bone, complete curettage of the growth may be impossible without interfering with its function. Roentgen therapy has yielded good results in many cases. It is based on the theory that the giant cells are of an undifferentiated or embry o-

nal type and the irradiation hastens their maturity nat type and the irradiation hastens their maturity and death As a rule there is increased bone i) sis for and death has a rule there is increased none it was so several weeks after the beginning of the treatment several weeks after the beginning of the treatment.

There is no necessity for hospitalization and there is no disfigurement of the limb such as results from

urgery Of a series of cases reported by Simmons a clinical Ut a series of cases reported by summons a cunical cure fr in roentgen ray therapy i as reported in cure ir m roenigen tay inerapy 1 as reported it from 73 to 75 per cent and a clinical cure from sur trom 73 to 75 per cent and a cunical cure trom sur Sery in from 63 to 72 per cent Of the author's seven gery in from 03 to 72 per cent to the author's seven teen cases ten were chincally cured—four by roent teen cases ten were cunnicary cured—tour of roem gen ray theraps alone five by roentgen ray theraps gen ray therapy atone use by roentgen ray therapy and surgery and one by excision If surgical attack and surger) and one by excision

It surgical attacts to should be preceded and f. 1

## MILLIAM SELHER CTARY ALD

Coley W B The R ults of Irrad ation in the ey W B the K uits of irrad atton in the Treatment of Operabl Osteoge ile 5a coma of Treatment of Operation Usetoge inc on the Long B nes  $R \neq 1$  ( 933  $\lambda t$  3 8

The very lov percentage of cures from amputation The very lov percentage of cures from adaptation for sarcoma of the long bones has been very disfor sarcoma of the long oones has been very discouraging T entry years ago this percentage was only from 2 to 4. More recently, there has been only from 2 to 4. More recently there has been improvement in the esults due chiefly to earlier improvement in the courts one cinent to carner diagnos s. The author c includes that thes tumors ciagous a the author c houses that thes tumors are too resistant to Justify ir adiation. Et ing Jane are too resistant to justify it attraction. Evering Jane was and I in h are in accord with this conclusion was and im n are in accood thin this conclusion. The solution therefore seems to be caller diagnosis. Ane south in therefore seems to one or their diagnosis and earlier amputation. When a Positive diagnosis and eath er amputation when a positive dages su cannot be made by clinical and roentgen studies cannot be made of cun car and toentgen studies by shoull b done foen sections may be bi ps. shoull o done ro en secul as may be misleading \o hatm \( \text{ll c me from aiting } f \) i P aft n section

an n section Although some including Blo dg od advocate a Annough some mentaling one are on auvocate a period of irradiati n of three or f ur veeks hile period of manage in or enter of the veeks line a number of serious results in a number of serious results tating t reonsultations a number of serious results from o er irradiation of bone turn a shave occurred fom o et irratuate n'oi some turn s'have occurred. Several ase are ited Imp ovement in the tech Several ase are tree impovement in the tech nique of deep oentgen ray th apy and rad um tradiation may impro e the resilts but at present tradiation may impro c one rest its but at present the auth r does not belove that we are justified in the author does not bettere that we are justified in substituting irradiation for amputation in early substituting irradiation is r ampu operable sarcoma of the long bones

persone sarcoma or the 108 vouces.

Exception is taken to the eport of Ba tlett on a Exception is taken to in sport of the tiert on a study of cases in the Registry of Bone Sa c ma n and or cases in the registry of none of a mu in high it is stated that the 20 cases of five year cure from amputation were not cases 1 from amputation were not cases costeogenic sare ma  $\frac{1}{\text{Colet}}$  says that f by typical osteogenic sett me cores says that you cope it. Bartlett means only the tum rs showing new that Duritics means only the coin is showing new b ne formation radiating at right angles to the o ne tormation ratuating at right angles to the shaft then only 8 pe cent of all o teogenic sa comata can be included 1 Mc cover Ba tlett sl st sa comata can pe included 1 12 cover ha tiett sist does not include all of the five year cures The autho eports 4 cases of cure by treatment

and Coley s but all of the tumors were fibrosarcomata of low mal gnancy some of which did not p oduce new fow man gmancy some or win on the not p oduce new monal H pital New York. In the cases at the Me nouncer ray o radium irrad at on without amouta footigen tay of radium fixed at out without amputed ton there were no five ) ear cures whereas in 129

cases treated by amputation or resection there were cases treated by amputation or resection there were 7 such cures. In 4 of the cases of five year cure the 7 such cures in 4 of the cases of the 3 car cure the humerus was involved and in the 3 the femur Of 10 numerus was involved and in the 3 the temur Ut 19 cases treated by triadiation and the use of Coley 3 cases treaten by irradiation and the use of coles a toxing 4 were cured without amputation and ry ith torins 4 were cured without amputation and 3 ) its amputation. The series shot a 56 five years cures of amputation the series shows 50 live ) cars cures on sarcoma of the long bones. In 33 the sarcoma was sarcoma or the long nones an 33 the sarcoma was of the osteogenic type and in 23 of the endothelial mi eloma ti pe

specioma type
In conclusion Coley says that routine itrad ation An concrusion corey says that routine irrad atton of early operable cases should be abandoned even of earth operative cases should be anandoned even as a p eliminary while awaiting of mions. It is as a p emininary white awaiting of mons it is doubtful whether postoperative irradiation will prevent metastases Coles s towns and irra hatton prevent metastases Coley s torins and irra nation may cure the less malignant fibrosarcomata and may cure the sess manignant approsarcomata and those of the endothelial my cloma type. In cases f those of the endotherial my cloud type in cases in coperable tumors irradiation may retaid the growth inoperable tumors irradiation may reta d the growing of the neoplasm and relieve pain. In all others or the neoplasm and relieve pain in an orders amputation should be performed as soon as a pos tive d agnosis is made

Hough G De Jr Pogressive Pseud hyper Cophic Muscular Distrophy R ult of WILLIAM ARTHUR CLARK WD f ophic Muscular Distrophy a seem typer T eatment with Epinephein and Piloca pin

Hough reviews his thirty eight cases of pseudo Assume the second results of the second polypertrophic muscular distrophy and fits a cases as perturbing musicular at saturbay and 1 (t) s A cases reported by others n which ep nephrin and pil (cir reported by others a which ep deputin and pu co-pun were administered daily. He states that all of prin were auditidistretion daily the states that an orbit subjective or objective mpr vement vhile they were under the treatment

However the impresement was in st marked in However the improvement was in st mistiged the least advanced cases and in only one case vas there cast an anced cases and in only one case vas there any evidence that the progress of the disease had been stopped. Hough theref re believes that the ceat acopped stongs there is believed that the ceatment is not curative and must be continued in ceanitist is not curative and must be continued to definitely. He doubts whether it has any inducence on the duration of life The impro ement in his oa the turation of the line impro ement in an cases was not sufficient to enable the patient to walk cases was not sun cient to enable the patient to wask again after the abil tv to walk had b en lo t but it again after the ability to walk had be on to continue greatly improved any function that vas at il possible steatty improved any function that vast in proceedings of common and percent olution of pilocarpin and o a c m of a t per cent outcome of pilocarpin and o a c m of a t per cent solut n of epinephrin. He admits that a different dosage or the combined use of other meth ds of treatment might be beneficial

#### LeSag 1 Tuberculous Rheum ti m C I ILC COLOVA VD

Tube culous theumatism s often confused with Auge turous ringuinatism s often confused broading of the seldom correctly goury or gonormusi arthrus 11 18 senson contended diagnosed. When a spontaneous arthru de clops tasguoseu in nen a spontaneous artinti de empe in a patient h has gonorthea and n other nn a peatenn n das gonorrada and n other nnfecti n the arthrits is ega ded as gon ribo i Similarly when arthritis d clops sudd all in a ommutaty then attentis it cops such my in a tuberculous and indust the tuberculos s should be held primarily espons ble for it. The author believes that an ord nary th umatism may be occurse that an ordinary in autation may be the sole clinical and even the sole anat mical man festation of a tuberculous infection and that its nature may be determined only by experimental

procedures Clinically, a protracted "rheumatic" inflammation of a joint which gradually turns into a tumor albus is tuberculous from the beginning. There is no reason to assume that an acute rheumatism which occurs in a person with pulmonary tuberculosis is due to a secondary infection. Rheumatic manifestations following injections of tuberculin are well known

The anatomical and bacteriological proofs of the correctness of this theory of tuberculous rheumatism are found in cases in which there are specific cellular reactions in the joints or aspirated joint fluid yields the tubercle bacilli on culture or guinea-pig inoculation, but the author admits that in the majority of cases these proofs are lacking According to the Lyons School of Medicine, headed by Poncet, the tubercle bacillus may produce simple inflammatory (non-specific) lesions in serous membranes

The manner in which such a tuberculous rheumatism is brought about is conjectural. Four theories have been advanced. According to one, the condition is due to diffusible toxins, whereas according to another it is produced by adhesive poisons. Both of these theories are unsatisfactory. According to a third theory, the condition is due to the direct action of the bacillus, and according to a fourth, it is due to the action of a filterable virus.

Le Sage believes that tuberculous rheumatism may be due to the action of the bacillus itself, and that in some cases this bacillus produces a non-specific inflammatory reaction. He is of the opinion also that there is a virus form which may cause rheumatism and then change very slowly into the bacillary form without causing obvious clinical signs of tuberculous infection This apparently is the explanation of cases of rheumatism which go gradually over into the tumor albus type of joint At this later stage the tubercle bacillus may be found on culture or gumea-pig moculation of the joint fluid author reports seven cases which support these conclusions Clinically, tuberculous rheumatism is characterized by local attacks with more or less brief periods of respite and obstinate relapses This may produce chronic arthritis, cysts containing rice bodies, and retraction of the palmar aponeurosis in the hands, three clinical forms of the disease which are often not recognized as being of tuberculous origin CHESTER C GUY, M D

Brown, L T, and Kuhns, J G Mechanical Instability of the Shoulder Joint in Relation to the Prevention and Treatment of Painful Shoulders J Bo e & Joint Surg., 1934, XVI, 88

This article is an illustrated discussion of the factors predisposing to muscular, tendinous, and capsular injuries about the shoulder joint. The same factors may defeat conservative or operative methods employed to relieve these injuries.

The authors emphasize that mechanical instability of the shoulder joint is related directly to poor body mechanics in the thoracic and cervical spines and the thorax as faulty posture allows the shoulder

joint to assume a position that predisposes it to injury and renders treatment of the injury difficult if not unsatisfactory. The shoulder girdle is so constructed that when the body as a whole assumes a drooped position the habitual position of the shoulder is one of constant strain on the structures which stabilize the joint

When poor postural habits are corrected, the head of the humerus is held in the glenoid cavity by the ligaments alone and no undue strain is placed on the muscles. The glenoid cavity then assumes such an angle that the head of the humerus can rest on its lower lip and thus further relieve the strain on the muscles attached to the greater tuberosity.

JAMES K STACK, M D

Ghormley, R K Low Back Pain, with Special Reference to the Articular Facets, with the Presentation of an Operative Procedure J 1m M 4ss, 1933, Ct, 1773

The articular facets must be regarded as the only true joints in the spinal column. As they are true joints, hyaline cartilage covers their surfaces and synovial membrane lines their articular capsules. The articular capsule is more redundant and loose in the cervical region than in the lower portion of the spinal column. The pains are often static that is, they are relieved by certain postures and greatly evaggerated by others.

The degenerative changes which occur characteristically in hyaline cartilage may be seen in the articular cartilage of these facets, together with the eburnation of the underlying bony trabeculæ. This degeneration may go on to complete loss of the cartilaginous surface and irregular hypertrophy of the margins similar to that in advanced stages of degeneration or hypertrophic arthritis of other joints

There is evidence in the literature that, by some, the facets have been regarded as causes of sciatic The author believes they cause not only sciatic pain, but also lumbosacral pain with or without sciatic pain. Most patients who complain of pain of sudden onset low in the back which is brought on by some activity often trifling in its severity, but usually involving a twisting or rotary strain of the lumbosacral region are probably victims of the "facet syndrome" Proof of these changes is in many instances difficult to secure, but much aid in establishing the diagnosis will be derived from oblique roentgenograms of the lumbosacral region Before operative treatment is decided on, the surgeon must be certain of the joints to be stabilized or the result may be poor The combined lumbosacral and sacroiliac fusion described by the author has proved much more satisfactory than any other type of operative procedure

Freiberg, A. H., and Vinke, T. H. Sciatica and the Sacro-Iliac Joint J. Bone Joint Surg., 1934, VI, 126

Treiberg and Vinke believe that sciatica is rarely caused by narrowing of the lumbosacral space. They

admit that narrowing is frequently observed with admit that narrowing is frequently observed with scrattca but state that they have found it also in the sciatica but state that they have found it also in the absence of sciatic pain. They say, We have thus far encountered no case in which sciatics and any of the sciatics and the sciatics are scienced by the sciatics and the sciatics and the sciatics are scienced by the science of t far encountered no case in which sciatica and narrowed joint space were found vithout at the nationed joint space acre ioung vitnout at the same time presenting evidence in the stereoscopic same time presenting evidence in the stereoscopic time of the pelvis of arthritic charge in the sacroliac louit of the painful side. Just Joint of the painful side. They believe that such an arthritic process probably has a relating effect Upon the Saments thus permitting abnormal motion with increased wint brooks them and new and

enect upon the i gaments thus permitting abnormal motion with increased joint braitation and pain and motion with increased joint mutation and pain and that quite frequently while the lisab my appears that dune nequency where the usab my appears to be of recent origin a study of the history will to be or recent origin a study or the manual reveal attacks of back pain of varying severity The straight leg raising test which has hitherto

Age straight reg raising test whith may interest been used to demonstrate scratic pain in connection been used to demonstrate scalle pain in connection with the sacto that joint may be more reasonably with the sacro wae joint may be more reasonably explained by the fact that the pyriformis muscle is expia nea b) the fact that the pythornus rouscle is the only one which has a very intimate and omical the only one water has a very initiate and united relationship with the sacro that joint and the sacro the sacro that it is said. reactions up with the sacro mac to be and the said mere. The authors, anatomical studies on the nerte ine authors anatomical studies on the demonstrated that during the st aight leg cadave demonstrated that during the st algative raising test the sacrotuberous begament and p) nho raising test the sacrotuperous ugament and p) mor mis muscle particularly are put under tension long ms muscre paracularly are put under tension under tension for the scatte nerve occurs. There before stretching of the scalic nerve occurs fore it is possible to consider the mechanical effect of tore it is possible to consider the mechanical energy pressure on the sciat c nerve as the result of con pressure on the scure cherve as the result of con-tinuous spasm of the pyriforms muscle which in tation is due to its close relationship to the constant changes on the space in the space of the con-tinuous continuous c triation is due to its close retailorship to the pathological changes in the sacro hac joint. The pathological thanges in the sacro has joint ine authors admit that this explanati nof scattle pain of association with disease of the sacro that joint lacks are the sacro that joint lacks are that joint lacks are the sacro that the sacro that the sacro that joint lacks are the sacro that the association with a sease of the sacro mac rount tacks deed proof but they be he e it is correct. This theory suggests that the relief obtained f on theory suggests that the tener obtained 1 om manipulative procedures for sciat c pain may be due manipulative procedures for sciat c pain may be due to the release of adhes ons between the Pyriformis to the recease of address ons perseven the ps morning muscle and nerve sheath rather than to the stretch huscle and sterve sucasus rather than to the screecening of the nerve trunk and that an operation on ing of the zerve trunk and that an operation on the fendon of the pyriforms at its trochastere the tenoon of the pyritorinis at its troconnection attachment in ght be attempted in cases of len obstinate sciatic pain

G uman M I t C COLOVNA M D 

The author reviews the history of our knowledge I he author reviews the distort of our and leage of epphyses of esteech admits and related of eases or ep pursues of esteechoodrits and related of eases or ep pursues of the patella The first case of the end of the ported by Gellman was of the s mple primary type portion of the partile alone. The patient was a six Activities the part in atome the patient was a aix activities the part in atomic and weatness Sear-old boy with intermittent pain and necessary in the kne's but no h story or physical find age to in the ane s but no a story or physical 1 no ngs to indicate sa elling reduces or a fise in the local or fruitate ancume reconess of a rise in one rocar of the compositive Roenigen Tay examinate n regeneral temperature Abenigen by casumian we yealed a typical ragged fragmented patells with Vessen a 1) picas sagged standard passus with agrees of lessened dens to and incomplete ossification areas of lessened dens t) and meaning to surface to the first of the f fiered the symptoms A tottow up roentgen ray examinat on two 3 cars later showed that the patella examinat on two 3 cars later snowed that the patena had regained its no mai structure but was larger than normal for the child's age

The second case reported was that of a tuelle ine second case reported was that of a there is and boy whose primary symptoms were similar jear one now wasse primary symptoms were similar to those in the first case. Roentgen ray examination to those in the first case Accenteen ray examination confirmed the clinical diagnosis of patellar osteo communes the cumical magnosis or patenar osteo chondrits and shot ed irregulanties at the osteo chondrits and snot en irregularities at the osteo chondral borders of the lower chiphyses of each chondral borders of the tower epipulses of catal femur. While the objective Indings were bilateral remer vane the superity alongs were quateral the symptoms pointed only to involvement of the right line. This knee was immobilized after the nght knee his knee was immobilized after months all tenderness had disappeared and tree months an tenuerness and disappeared and teenings at examination showed restoration of the patella. However, shortly afterward 51 mptoms occurred at the point of attachment of the tendon of the shortly about a state of the shortly shortly about a state of the shortly shortly about a state of the shortly shortl Achilles to the os calcus and a hitle later over the Acquies to the os calcus and a nine later over the tibial subercles. These also were relieved by con servative methods

Ghormle, R k ormles R k kirklin B R and Bray E t Ruberculosis of the Ance Joint A Compan of Its Wo bid Anat my with its Roents nolog or its to big Anat my sign its ical Manifestati ns im f R

The rountgenological diagnosis of tuberculosis of the knee from arthritis of a non tuberculous to pe the same from arithmis of a non innercount of permants a difficult problem despite recent advances remains a out cure prooten despite recent advances in technique and interpretation. In the very early in tecnnique sua interpretation in the very carriers foculgenographic signs are entitely lacking Less a mentgenograpme signs are entirely lacking for a given time there is probably more to be seen in the rocatecoprams in the non tuberculous than in the toengenograms in the non movemous uses in the tuberculous type. In cases of short duration nt the twoerculous type in cases of snort duration pu e synoyial tuberculous till be manifested by pu e synovial tuoerculosis v u pe manuesteu py synovial thickening and sometimes by hauness of s) novial unexening and somewhors or assures on the locat. In non tuberculous cases thickening of the 552 via will be found with about equal fre the syn via will be found with about equal tre quency but general haziness occurs less often quency out general naziness occurs iess outer Marginal erosion a suggestive of tuberculosis but targinal crosson a suggestive of tuperculous sons a seen also in the non tuberculous type. Marginal s seen also in the non topercusions type thoughout pipping while P esent more often in the non tuber ulous variety does not exclude tuberculos s

Thinning and interruption of the cortex of hone anoming and interruption of the cortex of concert in both types of the disease. While present a begat in total types of the disease transport from of the joint space over a long period is more passes of tiberculosis it is often noted in the first period in the period is more and in first period in the perio the 19 in cases of tuperculosis it is often above in non-tuberculous cases. In tuberculosis the area of those cases the area of the cases and bone. non moerculous cases in cuberculous one area of the second pool of carthage and bone greatest destruction door in cartage and commany be either central of marginal. In non-tuber may be either central of marginal. In non-tuber culous cases it is practically always cent. al. Alrophy curvus cases at is practically amags cent at an upper of bone is seen in both varieties in a la ce proport on of cases and toentgenograms of the tuberculous of tabes and roentgenograms of the tabercurve, joints may show sufficient destruction and hyper

trophy to simulate the picture of a Char of joint oppy to simulate the picture of a Linar of joint land acases of both types destruction is advanced to the control of the contr and distinction is often impossible. Abscesses of bone and s questra are definite indications of tuber colosis but in a large percentage of cases sequestra curous out in a rayge percentage or cases sequential are not 1 s ble in the roenigen gram. In the ours tionable carly cases in a blech I bo afory data are tionable early cases in malen 1 to acopy date are essential for the determinat on of the type of disease the rontgenogram offers little impetu from the engagement of the months the rocategorogram oners atthe impetu Ioward is sing of the pendulum t one side or the other Shing or the penoutium tome sine or the vinc in detailey advanced cases of d sease it may offer greater aid in the d agnos s

A comparison is made between the roentgenogram and the gross and microscopic pathological specimens in sixty-five cases of tuberculosis and eleven cases of non-tuberculous arthritis of the knee joint In a large percentage of cases the roentgenograms accurately demonstrate the pathological lesions, but, because of the similarity of the two processes, they cannot be considered in most cases as depend-The principal shortable diagnostic evidence coming of the roentgenogram is its failure to demonstrate the early pathological changes in bone or synovia and the presence of areas of sequestration The principal advantage of the roentgenogram is the demonstration of bone lesions which may remain hidden beneath more superficial disease of the synovia or beneath structures that appear normal

#### SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Pochintesta, A Bone Tuberculosis and the Method of Robertson Lavalle (La tuberculosis ósea y el metodo de Robertson Lavalle) An Fac de med, Univ de Montevideo, 1933, viii, 487

The author discusses the development, scientific basis, technique, and results of the Robertson La-

valle operation

The theory of the operation is obscure and does not conform to the accepted principles of pathology Cure is supposed to be effected by resolution, no account being taken of fibrocalcareous encystment or remineralization. The "hyperæmic strangulated focus" is inconstant and may be present in non-tuberculous processes. It may be confused with congested marrow. Its roentgenological determination is extremely difficult. In fact, Pochintesta admits that even after minute study of hundreds of roentgenograms made with Robertson Lavalle, he is unable to find or define it, and he considers it an illusory and fugitive lesion. He states also that the difficulties of implanting the graft in the strangulated zone, provided this zone can be localized, are at present insurmountable.

Pochintesta has collected sixty reports of this operation, chiefly from the Argentinian, Italian, and French literature Sixteen per cent of the patients were cured and 12 per cent were benefited Or forty-four patients operated on in Uruguay, 15 per cent were cured and 18 per cent were benefited

Two postoperative stages are recognized The first, which lasts for from four to six months, is characterized by immediate and absolute cessation of pain and general improvement. Immediate relief of the pain is a characteristic result of the operation, but a sedative effect would be obtained by any decompression. Canalization of the bone without the insertion of a graft would be sufficient to produce it. The theory of autogenous vaccination through the medium of the graft is being more widely accepted as an explanation of some of the beneficial effects of the operation. In some cases the first stage of the postoperative period is followed by a relapse

The statistics are therefore not an absolute index of the results of the operation. They show only the results of inaccurate technique or deliberate modifications. Ultimately great advances will probably be made in this new field when its problems have been put on a scientific basis. The value of these methods lies at present in the obscure but effective action of the graft in the vicinity of a tuberculous lesion, which aids calcification, modifies trophism, changes the circulation, and intensifies the factors of defense. The method has opened up new problems for the investigator and surgeon. The operation can hasten cure considerably if it is done at the proper time and followed by correct after-treatment.

The article is supplemented by roentgenograms, diagrams, and an extensive bibliography

M E Morse, M D

Koch, S L Complicated Contractures of the Hand, Their Treatment by Freeing Fibrosed Tendons and Replacing Destroyed Tendons with Grafts Ann Surg, 1933, xxviii, 546

Infections in the hand follow the tendon and muscle sheaths and the worst damage is found where the exudate has been under the greatest tension, as in the digital tendon sheaths and under the anterior annular ligaments. In attempts at surgical repair it may be necessary to shorten a tendon, as for example, when flexors become fixed in a relaxed position during acute infection. On the other hand, if the tendons have been contracted during the infection they must be lengthened to restore function. Stiff joints must be well mobilized before ten-

don surgery is done

Several specific cases are reported. In one, the flexor pollicis longus was enlarged and adherent to the base of the proumal phalanx of the thumb, preventing complete extension at the interphalangeal joint Freeing this tendon and covering it with fat resulted in normal function. In another case, the flexor profundus of a finger in fixed flexion contracture was found seven months after the injury to be adherent to the flexor sublimis at its bifurca-When this adhesion was relieved surgically the contracture was cured. In a third case the sublimis tendons to 3 fingers were sacrificed to allow room for the profundus, and the distal fragment of the latter was sutured to the proximal fragments of the sublimis and the profundus combined According to Bunnell, the loss of the sublimis tendon is hardly noticed Five other cases with more extensive disability are reported with details of the technique of treatment and illustrations

Tendon grafting is necessary for the bridging of gaps caused by extreme contracture of the proximal fragment of a severed tendon, for cases in which infection has caused so many adhesions around a sutured tendon that it is impossible to free them and obtain a workable tendon, and for cases in which there has been complete destruction of a tendon. In the finger the bed is prepared for the tendon graft by removing all scar tissue and fragments of the old

tendon. The author prefers free exposure by lateral incusion to the tunneling advised by some surgeons. incision to the tunneling advised by some surgeons. Lnd to end suture of the graft to the tendon is the And to end suture of the graft to the tendon is the method of choice. It is better to attach the distal method of choice it is better to attach the distal end of the graft directly to the bone after removing end of the graft directly to the bone after removing the distal fragment of the torn tendon. On the distal the distait tragment of the torn tendon. On the distait phalanx instead of (r) ing to drill the small bone for pnaizax instead or trying to and the small pone for attachment the tendon graft may be looped around attachment the tendon grant may be sooped around the back of the bone and satured to itself on the the back of the bone and satured to itself on the palmar side. For a gliding mechanism, the tendon Palmar side for a gliding mechanism the tendon graft when removed from the foot is taken with its grait when removed from the loot is taken with its surrounding areolar tissue intact to preclude the surrounding areolar tissue intact to preclude the accessity of prapping with fat from anothe sou ce accessity of rapping with fat from anothe sou ce An annular I gament must be reconstructed at the An annutar I gament must be reconstructed at the second ph lanx and at the middle of the proximal second pn lang and at the modie of the proximate physical tenuon gratt around the phalant tacausing the new grafted tendon and holding it donn to the bone gratted tendon and boiding it donn to the none Str pa of the subl m s tendon may be used instead of a f ee graft

An o der to make as easy as possible the procedure In o der to make as easy as possible the procedure of attaching the tendon graft to the distal phalanx of attaching the tendon gratt to the distal phalans and of constructing new annular ligaments to hold and of constructing new annuar figaments to note it in its bed when tension is put upon it the author it in its bed when tension is put upon it the author has come to perform the various steps of the operahas come to perform the various steps of the opera.

After the remain of the ton in a definite order. After the remain of the scarred tend n have been completely excised the scatted tend n have ocen completely excised the graft is 3a d in place and attached to the distal phalanx A s.lk suture is attached to the free end phalanx A sit suture is attached to the free end of the graft and passed through the tunnel left by the excision of the scar tissue over the proximal control of the scar tissue over the scar tissue the extra on of the acar tissue over the proximal potition of the plant and out through the plant and potition of the potition in the wager and next the e by sugar tension on its free end the ne annular I saments are const ucted tree end the ne annuar I gaments are const ucted when they e completed it is possible by putting tens on a the proximal end of the graft to see tens on n the proximal end of the graft to see exactly how a little function and f they have been exactly how y in they junction and i they have been sutq ed under the p oper degree of tension. The suta ed unde the p oper degree of tension the same step is 1 sure of the incisons in the fager next step is 1 sure of the initis one if the pro im 1 end 1 the graft is then suture 1 to the the pro imitenatione grant is then suture to the dital end of the lend an the palm. The final step is closure ( the in ision n the paim After the pr educe the finger is put up a mode After the preduce the unger is put up a mode are flexion and the arest in more pronounced

rhis article based on a se set of tot cases treated by the author or on his hispital ser ces The pa by in auth or on n s n sprical ser tes anged n age from t o to serent, two years Sevents seven of them were mal period of ho pital atton were man time average period of ho pital atton was eighteen and four period of no pital ation was eignired and four tenths days. In 51 recent cases the average period of physical the py was mucty \$ x days The average

of paysical the py was madely as days at only if of the 101 cases was no impresent noted it of the 101 cases was no imprement noted complete tests all on to normal function cannot be complete testo at on to normal function cannot be expected in such cases but the effort s worth expected in such cases but the entort s worth while if a pe fectly still finge can be gi en enough motion to tender amontation unnecessary The chief causes of failure are infection, the pull ng

the conet causes of fainure are intertion free pairing out of a sertions into bone fibr s.s. and adhes ons out of histings into oour out as any some one of grafts to surrounding take and addes as or of graits to surrounding as we and addes us or ankylosis in joints. The attitude of the patient is

an important factor. It is obvious that a patient an important factor 40 is obvious that a patient who is determined to obtain maximum function who is determined to outsin maximum junctions will have a much better result than one who desires nul have a much better result than one who desires motion to be minimal in order that he may obtain motion to be minimal in order that he may obtain maximal financial compensation. It has sometimes maximal financial compensation it has sometimes been observed that results which were not very been observed that results which were not very encouraging when the patient left the surgeons encouraging when the patient left the surgeons care become much better with sub equent use of

M Cauly J C Jr and h da A E th Treat that J S they now in Congenital Club Poot

The authors stress the importance of adequate The authors stress the importance of adequate correction of equinus in club foot and outline their correction of equipms in club toot and outline their treatment with particula eference to the value of subcutaneous tenotomy and capsulotomy Treatment of congenital club foot should be started as soon as possible by first correcting the

started as soon as possible by 1 rst correcting the tarus and us ng the tend n of 1ch lies and posterio tarus and us ng the tend n of ten lies and posterio ankle structures as res stance to vork against B antie structures as tes stance to vora against o seelly stretchings the position of the sole lie is seadually changed from the son to eversion and the gradians changed from inves on to eversion and the long axis of the foot from adduct on and in rard displacement of the forefoot to abduction and in services and the forefoot to abduction and out displacement of the foretoot to about tion and our ward displacement. When this o er corrects in has ward displacement when this o er correction has been obtained the tendon of Achilles and posterior peen optained the tennon of Acomes and posterior and to co eet the equinus aukie scructures are stretch a to co eet the equ nus deformity. Livery p exauth a sh uld be taken to deformity Livery p etauti n sn uid be easen to a did injury to the structures i the toot nu particular by to the skip. The number of sittings required use by to the sain. The number of sittings required area from four to sixteen acc raing to the degree varies from four to sixteen acc ruing to the degree of deformity and the resistance and structure of the of detormity and the resistan e and structure of the foot and should p occed as tapidly as possible A foot and should p occed as rapidly as possible of Patta bandage is applied over a thin layer passer of ratis pandage is appued over a thin layer of cotton daniel bandage and replaced by adhesive of cotton nannet oandage and replaced by addessive plaster, hen the angle bet; en the dorsum of the paster view the angle bet ven the dotsum of the foot and the leg becomes to acute fo the plaster of Pars dres ing. At this time daily stretchings at

of tarks ares ing. At in s I me as iv stretch nice about the matitated.

When clin cal er correction has been obtained to the control of the a late al r engenog am is made with the foot n a late at r entgenog am is made with the toot a complete dotsal flexion. In a large percentage f complete dorsal nexton in a larg percentage a cases tail be found that the orection is anten r cases this performed that the orect n is antered to the oscales and astragalus while these structures to the os calcis and astragalus no ie these situatures remain in equinus. The authors ecomn cud subtensam in equinus the authors ecomicon suo cutaneous tenotomy and capsulotomy as a outine cutations tenotomy and capsulotomy as a outment detail in the treatment. Under general anasthes a deta i in the treatment. Under general anastnes a subcutaneous achillotomy with diston of post posterolateral and p steromed 1 capsular n ; posteronateral and p steromed ; capsula and figamentous structures is perform d. Lp and pressure on the sole of the for s smaintained dun g one procedure and quist her on popular as resources on as possible along the sole his much procedure as permitted by the streulation is

maintained preferably; the adhest er laster At the end of a week anothe stretch ag thout Assasshes a 1s done and the foot again examined auxilies a is once and the tool again examined with the roenigen ray. The toenigen examined the with the roenigen ray the societies examination of the sounce then out astrace time correction of the equinus. The foot s then held in the extreme of the correction of the extreme of the correction of the extreme of the equinus states of the extreme of the

corrected position for from one to two months, the proper length of time being determined by trial periods of release from the retention dressings. After discontinuance of the fixation, duly stretchings are performed at the patient's home.

In conclusion the author says that this procedure is to be considered also in the treatment of older children Rudolph S Reich, M D

#### FRACTURES AND DISLOCATIONS

Ayrolo, \ B \ A Case of Recurrent Posterior Dislocation of the Scapulohumeral Joint (Sobre un caso de luxación posterior recidivante de la articulación) Rei de ortop y tra imatol, 1933, in, 188

The case reported was that of a girl cighteen years of age. The patient had been born at term. The labor was difficult, and the obstetrician had used strong traction on her right arm. After birth, there had been pain and swelling of the joint for several days. About five months before the patient came for treatment, dislocation of the joint occurred when she made a movement of abduction with the arm extended, but in a few minutes it became reduced spontaneously. Since then it had recurred whenever the same movement was made. It took place without pain and could be reduced easily

At operation performed under ether anasthesia on April 15 the joint was exposed through an incision on the posterior surface of the shoulder beginning at the acromion process and running down parallel with the posterior axillary line. A capsulor-rhaphy was performed and a plaster cast including the thorax was applied. After two months the cast was removed and massage, progressive movements, and treatment with heat and electrotherapy were begun. By May 9, the movements of the arm had become completely normal

Audrey Goss Morgan, M D

Howard, N. J., and Eloesser, L. The Treatment of Fractures of the Upper End of the Humerus An Experimental and Clinical Study J. Bone & Joint Surg., 1934, XVI, 1

The authors studied stereoscopic roentgenograms of eighty-eight fractures of the proximal portion of the humerus recorded since 1925 in the files of the Department of Roentgenology of Stanford University Medical School Not a single fracture of the anatomical neck was found The authors believe that Kocher's classification of supratubercular, pertubercular, ınfratubercular, and subtubercular fractures is more logical than the usual classification Of the fractures they review, twenty-four were pertubercular, fifty-five were infratubercular and subtubercular, five were epiphyseal separations, and four were fractures of the humeral shaft extending upward into the surgical neck. The largest group were forty-one fractures of the high or infratubercular type, all of which occurred in adults Of the fourteen subtubercular fractures, eleven occurred in children from four to ten years of age

The displacements are analyzed The most frequent were abduction, external rotation, and forward displacement of the proximal fragment, internal rotation with medial and anterior displacement, and abduction of the distal fragment Shortening ranging from a few millimeters to 4 cm is always present

The subtubercular fractures in young children occurred in the region of the upper shaft where the dense cortical bone begins to thin out and become

replaced by cancellous bone

The shoulder muscles of a normal stillborn male fetus of six months were dissected and their measurements compared with those of the shoulder muscles of an adult male cadaver. In the stillborn infant there was low attachment of both upper and lower insertions of the pectoralis major, latissimus dorsi, and teres major muscles. The authors believe that this explains the low position of humeral fractures in the first decade of life.

Of the twenty-four pertubercular fractures reviewed, all occurred in adults and only two before the fifth decade of life As a group such fractures are characterized by impaction

All of the epiphyseal separations occurred in the

second decade of life

A detailed description is given of shoulder-muscle action as worked out on a phantom model with rope and elastic traction similar to that devised by Mollier. The article contains photographs of the model and charts showing muscle synergy and antagonism following different movements at the shoulder joint. An analysis of the reduction of fractures of the upper extremity of the humerus showed that downward traction with simultaneous lateral right-angled traction on the upper end of the lower fragment give exact reduction, whereas traction in the abducted position or in Boehler's position did not

The authors believe that Bardenheuer's principles of treatment of these fractures deserve consideration They describe their method of reduction, which they usually employ under local an esthesia with the patient sitting on a stool It consists of a downward pull by means of the operator's foot in a swathe around the patient's forearm which is held flexed by an assistant The operator's hands are free to manipulate the distal fragment After the reduction a small pad is placed in the axilla, the forearm is held by a sling, and the arm is bound loosely to the body Massage is used from the beginning Passive motion is started in the first week, and gradually increasing active motion at the end of the second BARBARA B STIMSON, M D

Haggart, G E The Treatment of Comminuted Colles' Fracture in Elderly Patients New England J Med., 1933, ccic, 1140

Seventeen of the last twenty-five fractures of the lower end of the radius seen at the Lahey Clinic occurred in persons over fifty-eight years old. In many of them there was comminution of the frag-

ments Haggart urges early reduction followed by

The an esthetic of choice at the Labey Clinic in the The anesthetic of choice at the Labey Ulinic in the treatment of such fractures in elderly persons is a vertil with the patient lying on the discovered table. It also described the counterfaction are made and counterfaction of the model of the counterfaction of th the mpacton of the rad all fragments is broken up With the fraction maintained the fragments are With the traction maintained the tragments are the modded into alignment by firm pressure of the operator's thumb passed distally over the dorsum operators mump passes usuary over me unround of the patient's wast. The hand is placed in the position which best maintains the alignment and the

postton south and is held by the normal anatomy of the joint and to new by the operator while an assistant applies a sugar tongs operator while an assistant apputes a sugar tongs plaster spilnt. The spilnt is applied to the elbos carm wrist and hand and bandaged in place totally with and and and anternamenages of presents with gauze It is so constructed that it permits complete flexion in all interphalangeal and meta composite nearon in an interpnetangest and meta carpophalangest joints but prevents p onation and carponaningea joints out prevents p unation and provides anteroposterior immobil station of the radius and ulna

The patient is instructed to use his fingers con stantly and abduct the arm over the head at least otating and amounts one aim over one mean at reasons six times daily. The splint may be adjusted as neces ary by cutting the gauze bandage if the swelling aty by cutting the bause banage is the amening increases or tightening it when the swelling recedes int traces or regurering in much one success records. It is left on to from five to seven veeks. If the findings of roenigen ray examination after remo al on of the spirit are satisfactory physical therapy with or the spaint are saussactors, paysucar therapy with rad ant light massage and act to exercises is begun

Toledo p S Subtotal R trolurar D stocat on f tal t claim d p Leslons (L xa 6 ub. f y) 1/931 y ion blat i) c f

It o and a half years before the ase reported It o and a pair years better the day reported was seen by the author the patient sustain diesions was seen by the author the patient sustain o resons of both t rasts as the result of a fall n the hyperex or pour vitors as the result of a last in the property tended hands. He had been treated unsucc safethy for f actures of the lone end of the ad 1. He had for a actures of the lower end of the add, the marked loss of function a symptoms of ne ve communication and arr phy, of the forearm muscles pesson and act pay of the toresam musics.

Roentgenograms showed almost identical lesions in both ansts namely fracture of the scaphoid bone Dotti tits name) racture of the scapnosi oune and of the edges of the articular surfaces of the and of the enges of the attention of the on magnum and anterior di placement of the semilunar bone

The right was ope ated up in fix and the Let signt what was ope area up in a st and the left what fitteen days later. Through a do sai unces on the fragments f the scapho d semiunar tacts on the magnetis the scaped a seminant and cuneform bones were excised the os ma num and concern nones were exceed the os and none be ng left to articulate with the radius. After tivel e days of immobilization in slight extension physical therapy was begun The r sults were very g od In carpal les ons a cl n cal diagnos 5 is difficult and An Caspar tes ons a crit car mignos s is unicuit and contgen (a) examination of both wrists 18 indis roentgen ray examination of both wrists is most

F acture of the scaphoid is characterized by

symptoms of sprain of the wist with the maximal symptoms or spirate or the waste with the maximum manifestations in the anatomical snuff box. In old

cases it is suggested only by an increase in the thickness of the external carpal column. The frac ture usually occurs in the medial part of the bone use usuany occurs in the intense part of the bound Subtotal dislocation of the carpal bones is fre guent The condition must be differentiated from gent the condition must be understand the fracture must be reduced opening suspinous the reacture must be required if possible and the wrist immobilized for six weeks at personne and the witst annauminess for the between flexion and extension. If reduction is im

possible the fragments must be extrepated Subtotal retrolunar dislocation of the carpus is characterized by displacement of the os magnum behind the sem lunar bone. The dorsal dislocation ocanica to sensional oone are noises universional may occur with or 1 thout encleation of the semijunar b ne depending on whether the antenor radiolynar heament tears or not. The enucleated Semilunar bone frequently rotates 90 degrees around the antenor radiolunar ligament as an axis Pam and loss of funct on are marked the Brist becomes found and symptoms of neric compression often round and symptoms or nerve compression of the develop. At the base of the third metacarpal the normal depression is obliterated by the head of the symptoms of nerve compression reduction should symptoms of nerve compression (concrete and a stempted immediately) If the attempt fails as is frequently the case the semilunar bone must be a nequency one case the seminant pour must be surgically feplaced or extripated. In old cases extirpat on of the scaphoid bone semilinar bone and sometimes the cunciform bone is necessary

Auechel W. The Treatm at of Fra. to s of the Carpai Bonner and the date Re ults (U ber d Br. e. s. coton). Mar. 8 s. s. m. d H. ch. h. 2011

Follow up examinations made by the author show tat the frequency of fractures of the carpal bones as not sufficiently recognized. In cases in which the injury is assumed to be a simple sprain and a roent mjuty is assumed to be a simple sprain and a vector sen examination 5 not made improper treatment is see communication 3 not made improper treatment to 3 ten and the fracture is recognized too late. In S year and the state of the scaphold and supple cases the c is a matter of the scapulor and semilorar bones or a fracture of a carpal bone with penlunar luxation

Fractures of the carpal bones require absolute irractures or the carpar bound require apparatus into oursation outsined by means or a pusher case or a dorsal plaster plint. In sample cases the immobilization should be continued for a period of three weeks and in complicated cases for as long as five or recess and in comparation cases of innocent looking dis six weeks fiven in cases or innocent whome worth Staple examination is inexcusable. A good func steps v cantinacion to measurance a good sum tional result can be obtained only by strict immobile Ernst V

and Roemmelt W SCHENK (Z)

Chips f om the Carpai Bones (Ueb ugn ndn the Carpai Bones (Ucb Abpr g Zt h f Ch Hand ur lkn hen) D t h Fragmentation

On the basis of minety cases the author discusses the occurrence of chipping of the carpal bones as an

injury distinct from ordinary fractures. As a rule there is a tearing fracture. Only in the semilunar bone are small fragments observed after direct For diagnosis, roentgenograms from various angles as well as stereoscopic views are The small fragments rarely heal to the necessary bone, but form pseudo-arthrotic unions

The article contains a large number of roentgenograms showing the site and type of fragmenta-

tion occurring in individual bones

Clinically the small fragments cause comparatively slight and only transitory distress senous and lasting pain, and not rarely permanent disturbances, are caused only by injuries of the semilunar bone and the trapezium. In injuries of these bones prolonged rest is necessary, whereas in injunes of the smaller bones brief rest followed by physical therapy gives satisfactory results

The authors believe that many of the so-called accessory carpal bones are merely healed pseudoarthritic fragments L Koenic (Z)

Schnek, F

The Roentgenological Diagnosis of Fracture of the Scaphoid Bone of the Hand (Zur roentgenologischen Diagnose von Kahnbeinbruechen der Hand) Zentralbl f Chir, 1933, p

Fracture of the scaphoid bone of the carpus is common Delay of recognition and non-recognition of this injury are due to faulty clinical examination and improper roentgenological methods. The usual dorsovolar view with the wrist in extension is not satisfactory as in this position the hand is in slight volar flexion In this position the scaphoid is in a somewhat volar-flexed position, the fracture line, which is usually vertical to the long axis of the bone, is seen in an oblique direction, and even a rather wide fissure may be almost invisible If the hand is placed on the cassette in the position of a fist, it is somewhat dorsally flexed and ulnar-abducted, the scaphoid bone is visible in its entire extent, and the line of fracture is seen distinctly For the side view, semi-pronation is often advantageous as the scaphoid bone is thereby brought out on the plate in its entire length and without overlapping shadows of the neighboring bones VON TAPPEINER (Z)

#### Jepson, P N Traumatic Backache J im M Ass , 1933, c1, 1778

The lower part of the back is a shock absorber and the pelvis and lower part of the spine are ruggedly built According to Chamberlain's method of computation, the male pelvis is normally capable of only from one-half to one-third the mobility of the normal pelvis of the non-pregnant female However, involvement of the pelvis causes much more discomfort in the male than in the female, and because of his occupation and more frequent exposure to trauma the male is more apt to suffer from traumatic backache than the female

According to Ryerson, younger patients are more apt to have mechanical instability than older

patients, whereas older patients have an arthritic process which renders the joints more vulnerable to traumatism

Sprains of the back are very common symptoms may develop at once or not until some time after the accident. The usual cause is external violence or stretching due to unnatural strain or stress

Traumatic back injuries are most frequent in the lumbar spine, next most frequent in the cervical spine, and least frequent in the thoracic spine

The chief symptom of traumatic backache is pain As a rule there is a history of a blow, strain, or fall If the condition is primarily muscular, the pain is intensified when the involved muscle or muscles are strained When the back is moved in a certain direction the pain is increased and muscle spasm occurs In most cases standing is very painful. In others, the patient is unable to remain seated for any considerable length of time and any position he assumes is uncomfortable. Often there is discomfort following coughing or sneezing

In most low backaches caused by traumatism there is, in addition to pain, a definite list away from the affected side with referred pain in the posterior aspect of the thigh on the side opposite the direction toward which the pelvis lists Back bending is limited in almost all directions, but particularly in a direction away from the side of the pelvic list

Among the tests devised to determine the site of the low back pain is forcible compression of the sacro-iliac joints, which will often elicit pain in the affected joint

In the test used by Gaenslen the patient is placed flat on his back with the thigh and knee of one lower extremity fully flexed and held in this position by

the patient The other lower extremity is held fully extended, and pressure is made on the knee

Another test consists of forcing the leg into flexion, abduction, and outward rotation causes pain in the sacro-iliac joint involved

Roentgen-ray examination in traumatic backache is usually negative unless there is an associated arthritis In the great majority of cases of back injury, pain or tenderness is present in one or both sides of the lowermost part of the abdomen This region is supplied by the hypogastric and ilioinguinal nerves which, in addition to supplying the lower part of the abdomen, send sensory filaments to the buttock

In the differential diagnosis of traumatic arthritis of the back a fracture or a pre-existing hypertrophic arthritic condition must be ruled out. The treatment must be specific and definite and follow a regular plan

The prognosis as to recovery is good provided associated abnormal conditions are corrected Among the latter are foot strain and focal infection

In the treatment given by the author the patient is placed on a fracture bed or, in home treatment, a suitable modification thereof, and Buck's extension is applied to both legs. If the Buck's extension

makes the patient unusually restless the weights makes the patient unusually results the weights are raised for half an hour from time to time. The patient is allowed to turn on his side for a change of patient is anowed to taken our missione to a transport position but as a rule is kept on h s back in order to obtain the maximum amount of pos the support and immobilization This position is maintained for the weeks At the end of that time a plaster of Paris cast is applied with the patient resting on a rans tast is appared with the patient testing modified Goldthwait hyperextension frame anomics Constrained appearances of the lines on

By holding the back in hyperextension the maximum amount of immobilization is obtained and the position acquired while the patient is it ing in bed is maintained approximately

namication approximately.

After the patient has become accustomed to the cast he is allowed out of bed for a limited time and as he becomes stronge the periods of freedom and as no becomes stronge one persons of necessaria are gradually increased. The cast is usually kept on for two neeks and in some se ere cases for three on 101 two weeks and in some se ere cases for turee veeks. At the end of that time it is emoved and the back is strapped with address e tape. A back brace or corset made from measurements previously taken is applied over the strapping. The adhesive taken to appure over the strapp us the audenticape is left on for four or five days and then re applied

Between strappings treatment by baking and ght massage is given at the end of two weeks the I gut massage is given the time one or two weeks the adhesive tape is removed and mild exercises are begun The exercises are gradually increased in severity and scope ANTHON F SU VD

de L. K. Traumat e Injur s of ti Hip Occurr n e Treatm at at d and R uit on N ede OCCUPT ne Treatm nt aid knd R uit on the Basi of in tutional Vietrial Du ing a series of the Basi of the State of the Stat

This is a report on to cases of hip inju ; s includ ing fractures f the neck of the femu S mple disloca ing fractures a time needs of time remain a imple thisocations or cent all dislocations with fracture of the nons or cent at dissociations with statute or the polys injuries of the soft parts and the r sequelæ slipped epiph ses coxa vara osteochondrits Juven suppose epipny ses coxa vara unterthomornia juven illis coxar and sprains. The youngest patient was four years old (slipped ep physis) and the oldest eghty seven years (fractured neck of the femur) e gary seven years (manufacture meets of the frequency up to the trentieth year of age ep physical separa Up to the creation year of age ep physical separations p edominated whereas f a tures of the neck tions p communates wereas a cures or the neces of the femur and disl cations we e less common or the tenur and this cathons we eless common the different types of facture of Dissociations in the ouncient types of a active of the pelvis a cre most frequent betaten the t entieth and fifteeth ) cars of age Fractures of the neck of the and anticum Jeans of age contracts of the meets of the femur were m st common after the filterb year (76 tenur were it se common enter the nitiera year two males 26 females). The majority of the females had a a fractu e f the neck of the femur which occur ed a tracture of the neck of the femous which occur on at an auxancer see out a many uscances sees caused by a fall. Of the factors re ponsible for the injury according to the statements of the patients injury accounting to the statements of the parents the most common were blows gainst the hip or buttock and falls on these parts. In

the cases of miners they were crushing against a wall a fail on the hip and buttock from a considerable height with the legs extended crushing by scaffold ing or earth the blow of a heavy object on the hips mg or earn one mon or a meany source on one many entanglement in a belt gearing the litting of a beary load with the hips bent and torsion of the body For separation of epiphyses a very trifling DODY FUI SCHALLER SUFFICIENT DISLOCATIONS CApecally central d slocations with several fractures

of the pelvis occurred only under great force The majo it of the injuries were fractures of the neck of the lemur of various types Only 20 of the 55 patients were brought to the hospital immedi 55 peaceus were unugant to the mospital minitude atlely after the accident. The 35 others were active states the account and 33 viness mental med from several needs to several years after aum steel stone several weeks to several years after the injury. The out; and rotation characteristic of tae injus)

Aue outs are rotation engracteristic of actures of the neck of the femur was e pecully actuates of the area of the female was e persons pron unced in the pertrochanteric crush fractures. pion unter in the particularities cross macrosses. The old cases showed a high position of the troane we cases showed a mgu position or the tion chanter a positive Trendelenburg sign cora vara imitat on of movement e pecally of abduct on and internal rotation and pseudarthrosis. In impacted f actures authout dislocation there were few signs sometimes even after several days

Roentgen examination is indispensable. It gives information regarding the course of the fracture I ne autorination regating the course of the martine, in and nold cases it shows the type of displacement

and a out take it shows the type of the femur In the cases of persons with old injuries who enter the bospital because of pain and diff culty in weight bearing and locomotion the treatment should be conservative In cases of recent injusies with displac ment reducts n should be d ne under anxi thesis and a plaster d essing applied. In ca s of re ent fractures with impaction or no displacement only the application of a plaster dress ng is neces

ons the application of a plaster ures us a second life patients with a pseudar than the cases of life patients with a pseudar than the case of life patients with a pseudar than the case set) an the cases of its patients with a potential the state of the a brace is indicated. The author cites 2 cases fold injury a which a hp plastic operation by Lexer's method was done in peasure operation up bearers mention was now one with removal of a deposit of bone outside the our main tensoral of a deposit of bone outside in 10 joint and in the other with steelomy. For case, of po ily healed fracture of the neck of the femur Mederecke rejects resection as a mutilating opera tion On the other hand he recommends the plast c operation by Lexer's method even for old pe sons if they are healthy in the cases of patients who Come for treatment s on after the ac ident he uses the Wh tman p ocedu e In impact d fractures the the spi thrap P occur e in impact a tractures are impact, n should be b olen up f the pat ent is a mapacit it shound be n oven up i the par ent is a study individual the fracture then reduced and ac ay manying the nactine their remove and a plaster dres mg applied on an ext ns on table

with incorporation of the normal leg as fa as the in the reviewed severe cases which were ante in the reviewed severe cases which were treated early the bealing period ranged f om five to six months. When treatment was given ea ly the sag mounts when treatment was given early the end result pa ticularly as regards the recovery of full apacity for work was ent ely satisfactory both in the cases of laborers and those of pe sons soon as one cases or amorers and mose or pe soon of the higher age groups who were injured in acoction ages age groups and were injusted an action of the compensation when it was awarded could be a second or the compensation of the compensati be d scont nued after two years In hip plastic

operations a favorable end-result cannot be expected until after a period of years and continued after-care. Even patients with pseudarthroses can be care.

rendered fully capable of full work Among the cases reviewed there were 17 of dislocation Just as in the cases of fracture of the neck of the femur, there were cases in this group also which came for treatment several years after the accident In I case thirteen years had passed Reduction was done under anæsthesia. When the Kocher and lever methods failed, reduction was effected by traction from behind and inward rotation In cases of suprapubic dislocation it was ac-The reduction maneuvers used in old cases were the same as those complished by simple traction employed in cases of congenital dislocation of the hip In cases of recent central dislocation extension treatment was given for five weeks and followed by immobilization between sand bags Walking was not allowed until after six or seven weeks In cases of dislocation poorly healed several years after the injury, plastic operations for reconstruction of the head of the femur, acetabulum, and acetabular roof were done Full capacity for work was restored

There were 13 cases of contusions Sometimes a picture of serious illness is presented in such cases in spite of negative reontgenograms, and if the symptoms do not soon subside chronic and even tuberculous infectious processes may develop as sequelæ Operation was performed in 6 cases Mobilization of the hip joint and subtrochanteric osteotomy were each done twice

There were 13 cases of slipped epiphysis with consequent traumatic coxa vara The clinical The findings in these cases were rather typical. The roentgen findings depended on whether the injury roentgen findings depended on whether the injury was recent or old. In 5 cases of already existing was recent or old. In 5 cases of already existing coxa vara a subtrochanteric osteotomy was done, and in 1 case a plastic operation on the hip by the lever method was performed. In 6 cases, non-lever method was performed and under anæsthesia and operative reduction was done under anæsthesia and followed by immobilization in a plaster dressing for seventy-two days. In 10 cases good results were demonstrated by the follow-up examination made

after a period of years

There were 3 cases of osteochondritis juvenilis coax. A history of trauma was determined definitely. Two of the cases were recent. The treatment consisted in extension, the application of plaster, and the use of a brace. In the 1 old case plaster, and the use of a brace at the follow-up the condition was found unchanged at the follow-up examination. In the 2 recent cases permanent satisfections results were obtained.

factory results were obtained
Arthritis may develop after any hip injury regardless of the age of the patient, but is more frequent in older than in younger persons. It is most common after rough treatment methods causing injury to the articular cartilage. The constitution does not play articular cartilage in this condition that have been ascribed to it

ascribed to it

The report shows how, even in the most severe hip injuries, complete restoration of function can be obtained when timely expert institutional treatment is given

A Fraenkel (Z)

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

Huard A Case of Thr mbophlebitis f tile Arm ird A Case of the mbophiebits I tie Arn Reseal d by Effort Resection of the Throm deven a by chort desection of the amount of the Vein and Denudation of bosed 5 gm in to the vin and remonstration to the Artery Cure (Un cas d th omb philb te du the artery cure (On cas d th omb phile to du m mb superi ur ré élé p un effort Ré toud du egm (encur th mb é et dé udation li Guéras ) Bull 1 ém 5 et dé udation à 1933 lix 1406

The patient those case is reported was a man thirty eight years old who stated that after reaching for a telephone with his left hand he developed weak tot a cuepinone wan mover name ne vevenopen weak ness in the hand and arm which was followed by ness in the mand which arm which was followed by increasing so elling. On his admission to the hos pital the arm was ordernatous and purple abduction picat the arm was recommended and purple and account of the arm was painful the axillary ten was hard and painful and \ ray examination showed an in

Twelve days after the patient's admission to the Awaye days after the partent a aumonom to the hospital the thrombosed portion of the vein was re moved and the artery denuded Six days later the cond tion of the arm was much improved but the left s de of the head face and neck was ordematous ters out the mean rate and make was a painful enlargement of the left internal jugular cin To relieve the con gestion and pain tenesection has done on the exgestion and pain venesection was some on the ex-ternal jugular. Anti-syphilite treatment was given ternal juguidat and syptomic treatment was given because of a doubtful blood reaction. Clinical im provement was very marked but the arm remained

provement was very marked out the arm rem weak and the mediastinal shadow persisted The author reports observations on the arterial and venous blood pressure in the two arms and the sanat ons produced in the pressure of the cerebro spinal fluid by Queckenstedt's procedure during sp nat man by Queenensteat a procedure duting of the nternal jugular vein on the left's de

In discussing the cause of the thrombi the author in uncussing the cause of the cause states that the sight frauma seemed scarcely states that the signi trauma seemen stateers and it is equally difficult to ascribe the condition to infection or

in the d scussion of this report attention was called An tipe of seusation of this report and the fact that in such cases there may be an increase to the fact that in such cases there may be an increase in the blood platelets with a corresponding increase CADEVAT pointed out that infection within the

chest is quite poss ble in such a case

MARSE W POOLE M D

Podkaminsky V A Di turb nc s in the Card o Manninity V A Di turb ne s in the tara o o vascular System from Arterforen u An urism vascular Manufacturen u An urism (St. rung ad He. gef. yst. m. infl.g. r. no. A eu ysm.) A h f hi Ch. 933

Podkamınsky reports the case of a man who de vel ped a large arterios enous aneurism several 3 cars

after a severe injury of the femoral artery pressure was applied to the aneurism the blood pressure has apputed to the anomaly pressure rose from 118/58 to 145/8 mm Hg and the pressure to the from 110/50 to 133/ 0 than 418 and the pulse rate decreased from 96 to 0. The heart was greath enlarged Marked dyspuces and cedema we e present 1 murmur was heard over all of the

Three months after operation the heart was con siderably reduced in all diameters the patient was able to work and even to go up stairs without much aute to note and even to go up states network much fairgue the orderna had disappeared and the mur

The author discusses the most commonly accepted theories regarding the symptoms associated with compression of an aneurism (1) the refer theory compression or an ancurrant (1) the reuex incorporate mechanical theory (he cites especially the nork of Rieder and Fick) and (3) the mechanicowors or retroet and kind and (3) the mechanica-neurogenic theory according to which the increase ne the blood pressure s mechanical and the slo ng of the pulse is neurogenic (Gerlach Harke Wachs

According to the author's theory both symptoms are mechanical certain amount of blood flows di ectivinto the venous system. As a result there is on extra into the venuous statem as a term system as a decrease of the blood p essure in the arternal system and an acrease in the venous system with a distinct venous pulse. An increased amount of blood flows venous purse An increased amount of blood hows into the right heart under increased pressure As a result this part of the heart becomes dilated The minute volume inc eases. However as the arterial pressure decreases simultaneously the load on the left heart is greatly increased. As a rule the blood pressu e remains at a level below the normal Ac pressure remains at a sevel below the normal according to is ael this fact is responsible for a decorong to 13 act this tact is responsible to a de-crease to the tone of the arterial valls an increase trease in the tone of the circulatory system and a conto the tapacity of the circulatory system and a consecurity and their the case in the demands made upon the heart. The utput and the contractions of the heart are increased Dilatation and hypertrophy result as the regulation of the pulse is dependent resurt is the regulation of the pulse is dependent upon the dynamic characteristics of the heart opon the oynamic custacteristics of the amuscle the slowing due to compress on a caused by o erfiling of the heart. The e hydrodynamic phenomena produced by the compress on of an ancursm resemble the symptoms which the author has noted in pe sons who have worked in a bent over position pe sons viio mave noraci in a non-over position. In such pe s ns there is an increase in the minute volume blood pressure and the transte e diameter of the heart (chiefly n the left ventrale) The phenomena p esent an analogy at one ventrum; the pacnomena p esent an analogy at to the find ags of experiments on compres ion of the walls of the abdomen The author cites the invest gat one carried out by Frey who found the artenal pressure acreased even after seve ance of both va gus and sympathetic nerves below the diaphragm

FRANZ (Z)

#### BLOOD, TRANSFUSION

Kontunović, G. The Survival of Blood Weber day bebe 'che'r des Blutes) Sorth roll Gar, 1953, 170, 21

The author believes that the term, "preserved blood" should be dropped alto, other and the term, surviving blood" substituted for it. According to the hidings of ratious investigators, the life of or thoestes sames from thent, to ore hundred and tienti divo As yet, no definite criterion of the vability of these cells his been recognized. We have only a certain indication of their death – han olyes. Blood a high sho is I amolysis should not be used. Blood which is expt in biological solutions (ph stological salt solution, a solution made from seven parts of sodium enloade, tive parts of sodium citrate, two tenths parts of potassium chloride, four one hundredths parts of magnesium sulphate, and distilled a iter to mate up 1,000. This is used in 2 proportion of 1 2) survives for from six to eight days at a temperature between 15 and 30 degrees In a 4 per cent solution of glucose with sodium ci trate, blood survives at the sime temperature for from aftern to eightern days LISTER ZI

Boycott, A. E., and Oakley, C. I. The Adjustment of the Blood Volume After Transfusion J. P.-Co. & Bucker J., 1954, xxxxxx, 91

I short revies of the literature is first presented. It has been generally believed that after transfusion of blood into animals, the increase in blood volume is soon corrected by the expulsion of plasma from the injected blood and the animal's blood to provide space for the injected corpuscles. In experimental studies the authors found that after the injection of blood equivalent to from 30 to 80 per cent of the existing hamoglobin, the resulting hamoglobin value was not as high as vould be expected if the blood volume had returned to normal

In a subsequent series of experiments carried out by them rabbits were given transfusions of blood amounting to from 50 to 100 per cent of their blood volume Before the transfusion, the blood volume was estimated from normal standards and the total corpuscles, plasma volume, hamoglobin, plasma protein, and plasma chlorides were determined two, or three days later, the animals' blood was washed out with warm citrate salt solution and the blood volume and the other determinations were repeated These experiments showed that there was an increase in blood volume equivalent to the number of corpuscles injected The plasma volume after the transfusion was practically the same as before The authors therefore concluded that the volume to which the animal adjusts its blood is determined by the plasma volume rather than by such factors as concentration and viscosity There was no evidence of red cell destruction An average of 80 per cent of the serum protein injected disappeared from the blood after transfusion The blood and plasma chlorides acted similarly HOWARD L ALT, M D

Keusenhoff, W. Accidents in Blood Fransfusions (Zurchenfaelle bet Bluttrinsfusionen). Zentrall! J. Cl. r., 1935, p. 504

In spite of all precautionary measures, there are occasional cases of injury from blood transfusion in which the complication is not explained satisfactorily by the donor's blood and therefore no certain protection against it is possible. The author reports one such complication which occurred in about 200 transfusions done in the last year and a half. Milder complications, in infested by subscute symptoms such as chills, fever, and mild, transitory jundice, have also been seen by the author occasionally, but

they are not important

Recently Keusenhoff saw another severe reaction after a transfusion which was done for an acute, severe intestinal hamorrhige. A computible donor of the same group (1) was used and 1,000 c.cm of blood acre transfused with considerable salt solu-Preliminary biological tests were negative The transfusion of 100 c cm of blood was followed by severe tenesmus, precordial pun, suffocution and vomiting. The vomitus did not contain blood A transfusion reaction was suspected, but the symp toms might have been due to the very severe humor thige. Is the patient was still bleeding protusely and had become unconscious transfusion was indispensable and therefore more blood was injected The manifestations slowly subsided and the patient showed considerable improvement. On the following day juindice developed and erythrocytes, granular casts, and oxyhemoglobin appeared in the urine I herefore, although the donor belonged to the same blood group, hemolysis had occurred. Nevertheless the severe hemorrhige stopped and did not re appear. The acterus faded rapidly, and on the second day after the transfusion the urine became normal. In another group determination, which was made with indirect test scrum examination and the roentgen test (crossed agglutination), Group \ was found on both sides. The author suggests that the disturbances may have been due to the transfusion of too much blood or to an agglutination titer of the donor's blood which was too high for the patient who had been jeopardized by the enormous hamor

Another severe reaction occurred in the case of a sixty-two year-old min who was seriously ill with chronic pernicious animia. The hamoglobin was 35 per cent, the erythrocyte count was 1,570,000, recent punctate hamorrhages had occurred on the legs, and the stools contained blood. The blood group was found to be a After a satisfactory biological test, 1,000 c cm of blood were transfused from a donor of the same group without untoward symptoms. However, in the evening the pitient had chills, a temperature of 40 2 degrees C, and clouding of the sensorium. After two days the condition was improved, the hamoglobin content of the blood was 55 per cent, and the erythocyte count was 2,360,000. The patient was discharged sixteen days after the transfusion. Light months later he was

# INTERNATIONAL ABSTRACT OF SURGERA

readmitted because of increasing fatigue resonated vectors or meteoric largue are count of trucal performance and the performance of trucal performance of truc tout, was according to that of Spical permisons anomal after preliming (c) a transfusion from an ther done of the spical permisons from an or the done of the spical permisons from an or the spical permisons from an order permisons from an order permisons from an order permison from a permison from nery spins (by a standarding rivin an energy around the same group was given. Seven hundred and fits cube estimated and fits of the transformation. These among the restores t reaction. That evening the patient became delinous reaction. I may evening the propert octains extensions and had a fever of 4 degrees ( but on the following the fol and non a tever or a degree a Cour on the formation of the mind was entirely clear he was fire from oay mis mind was ended the clear de was title from lever the unne was negative and the hamoglobia terer the utine was regarded and the national was of per cent. Two months after his di charge he was admitted aga n because of increasing weakness was sometice again octation in introducing measures. The hem globin 1 as then 30 per cent and the crifthrocyte C unit 1 3 000 1 transfus on of con from a donor halomomo to Groon O mass ery turocy te c unt 1 0 000 transition on on Six en ithout causing a reaction but at noon the Date ent had chills and a temperature of 40 2 degrees

On the following day his temperature of 40 2 degrees on the following day has temperature as a conserva-C. On the command only my temperature value into and the arme negative Jaundice appeared on the second day but disappeared again after four day second day but disappee at again after you day.
The harmostob a was 30 per cent and the patient
(32) becoming more exhausted the lead days an other transfesion of 1 000 c cm %25 made fr m the other transfersion or two vers was made a me time same donor. The preliminary test 1 as good and no Same donor. And presiminary sext, as good and meachon occurred during the transfu 1 n 11 sever at the end of an hour the patient had chills and a as the cut of an indir the patient had thus and a tempe stare [ 30 J legters [ Liter he coll p ed the small pul e and 3 nosts. The time was dark y ith a small por e and Janosis in e unite wa darn ted and contained out hat most bit an i granula ted and contained on the follo ing is with

increasing occulatory neakness Permis ion for au

tops) was retused.

This patient was doubtless a very poor risk. The
first two transfissions were followed by Some im

The patient was the short had not handless of other. protesses but the third had no beneficial effect. Provenient our use many man or venezione. There was certainly no error in the typing. In the facre was tertainly no error in the syping in the farm and fourth transfusions the same donor was lated and therefore the direct test was not made oscs and increme the affect test has not more confit the hamolest exam nation and the bi logical less acre lone Perhaps the omission of the direct test acre more acreases a commentum or one or exte 1 may expra n one matmoy sta 1 rauen on enven sudden incompatibility of the donor's blood after repeated tran fusions from the same donor. This repeated tran justions from the same donor and suggested the po sibility that the earlier transfusi us produced in the recipient immune antibodies again t produces in the recipion minimal and moving against the difference in the difference internations and kindy substances in the unor blood which we enflutions. This injury may be a cought by Crossed against the injury may be changed discharged in repeat of transfusion. Many additions that the change in repeat of transfusions, I orbane.

a once) by crossed assummation than changing donors in repeat d tran fusions or the part of transfer of the part of transfer o the volume of the transfur of blood also play of a rife the solution of the transfer of mixed and place of the solution of the solutio e pectalls in cases of chron harmor hage and dee pertanty in cases of thron harmor mage and to seem of the harmatopoi lie system. In such ca es it tases or the maintainpoint for system of such that is to define the system of the such that is to the second small train in tools. Careful lood grup determ nati na are essent a! The direct 1 to hald also be carried out as it reveals errors in the indirect examination. If the repeated use of the ame for the characteristics of the serum must be ane non the considerations of the sering mass of determined each time. However, it is better to use terestimates easist and superior is between two should be small. The amounts of blood tran fused Fact structure (Z)

# SURGICAL TECHNIQUE

#### OPERATIVE SURGERY AND TECHNIQUE. POSTOPERATIVE TREATMENT

Van Allen, C M, LaField, W A, and Ross, P S The Roentgen Diagnosis of Atelectasis, with Special Reference to the Ground-Glass Shadow and the Degree of Pulmonary Shrinkage Radiology, 1934, XXII, 27

Because of the disagreement with regard to the definition of atelectasis and the absence of pathognomonic signs, the roentgen diagnosis of the condition has not been entirely satisfactory

Atelectasis is defined as a totally airless state of either a part or all of the lung, with collapse of the small airways and alveoli This definition applies to the three recognized types of the condition, namely, the congenital, the obstructive, and the compressive

Recently the term "atelectasis" has been used to include various states in which the pulmonary tissues are partially air-containing, the collapse not being complete, or in which the alveoli are filled with exudate and are not collapsed

Pneumonia and atelectasis should not be confused although areas of atelectasis may develop in the course of pneumonia when bronchi become plugged by the viscid evudate Pneumonia is more prone to develop in areas of obstructive atelectasis that are contaminated with pneumococci than in a similar normally aerated lung

Areas of hypoventilated lung should not be classified as atelectasis as they carry on a definite, though decreased, respiratory exchange, while atelectatic tissues are wholly without external respiration

The characteristic roentgenographic signs of atelectasis are produced by the reduction in size of the affected tissue The diaphragm on the affected side is elevated and part or all of the mediastinum is displaced toward the involved side. At times the intercostal spaces on the atelectatic side are narrowed while those on the other side are widened The spine may show scoliosis with the concavity toward the lesion During respiration the affected side moves less, and the opposite side more, than normally, as evidenced by the excursions of the ribs and diaphragm The mediastinum moves toward the side of the lesion on inspiration, and away from it on expiration

Bilaterally symmetrical atelectasis produces none

of the displacements described

These roentgenological features of atelectasis are quite generally agreed upon, but there is considerable variation in the interpretation of the shadow cast by the pulmonary tissues themselves shadows have been variously described as homogeneous, mottled, streaked, slightly hazy, and evtremely opaque, but no one has made use of these

variations to differentiate the types of atelectasis or to distinguish atelectasis from other conditions producing increased density of the lung

All of these signs have been found in other pulmonary diseases Wu found diaphragmatic elevation in 55 per cent and mediastinal displacement in 12 per cent of cases of pneumonia Manges and Packard point out that fibroid pulmonary tuberculosis produces findings similar to those in obstructive atelectasis

The authors determined to search for a means of more accurate diagnosis between atelectasis and other lesions causing pulmonary consolidation

The term "atelectasis" was used to denote complete airlessness and alveolar collapse, massive or

First, roentgenograms of excised dog lungs in which atelectasis had been produced by obstructing a bronchus were made and compared with roentgenograms of the same lungs after they had been artificially reinflated Next, roentgenograms of fresh atelectatic human lungs of all types obtained at autopsy were made, studied, and checked by histological examination Then roentgenograms of the chests of living human subjects presenting these lesions, determined by careful clinical observation, were made The lung shadows of the three groups were studied and compared as to composition

It was found that the lung shadow was completely homogeneous only when the lung tissue was entirely free from air Even an extremely small amount of air, detectable only by microscopy, is plainly re-

vealed by roentgenography

A completely airless lung consistently gives a homogeneous "ground-glass" shadow if (1) the dosage of X-ray is sufficient to penetrate the tissues and demonstrate their radioconsistency, and (2) the shadow of the lesion is large enough to permit discernment of its consistency

The other common consolidations of the lung which are confused with atelectasis cast a definitely heterogeneous shadow because of the presence of residual air While a few other lesions present the ground-glass shadow of complete airlessness, these can usually be distinguished readily by other signs

The relative sizes of affected lobes is of impor-Measurements by Wang and Van Allen show that a completely atelectatic lobe is very much smaller than normal during both inspiration and expiration In pneumonia the affected lobe is of about normal size during expiration but much smaller than normal during inspiration. Wu has shown a high position of the diaphragm on the side of a pneumonic lesion during inspiration but never on expiration. while in atelectasis the diaphragm is high during both phases of respiration

# INTERNATIONAL ABSTRACT OF SURGERY

The ground glass shadow is constant in atelectasis And ground great analysis is constant to accretions unless shadows of irregular density are superimposed amenda and the state of the sta density is easily seen. In focal atelectasis the areas may be so small as to be obscured but the charac any or so small as to be obstaired out the chaint tensite evidences of visceral displacement are con

In pneumonia the roentgen shadon of the lung is at purcumons we rocused statuton of the suite in always bettrogeneous because of the presence of air and visceral displacements due to reduction in the size of the lung are absent or limited to the inspira

tuberculous lung also gives a heterogeneous shadow except in cascous areas which are usually small Small scattered tuberculous lessons may be sings of the state of the states and the states and the states of the st cally if visceral displacements occur at both inspira ion and expiration as may be the case in fibrois tion and expiration as may be the case in infrom-tubercul 5.5. Under such conditions focal atelectasis can usually be ruled out as it rarely occurs so chroni cally as tuberculosis. If the lung is compressed by cany as invertuous at the rang is compressed or pneumothorax it may be impossible to distinguish focal atelectasis from tuberculosis

If amorthagic infarcts p oduce a mottled shadow astrough they may cause visceral displacements after fibrous shrinkage

Julmonary hypoventilation can be distinguished tom atelectasis by absence of the ground glass

An extrapulmonary mass encroaching up n the lung feld produces a ground glass shadow unless ung i teu produces a ground geess some ourses lung tissue overlays if but the visceral displacements

When massive atelectasis and another c nsolida tive lesion occur in the same part of a ling the tive resion octur in the same part or a mag the strong glass shadow of the atelectass obscures the ground gases susuous of the attractions obscures the other lesion unless calcified areas o air containing

trines are present.

In neoplasms of the lung associated with betrue an incomeans of the number appearance with control live or compressive atelectasis the shadows of the two lesions are indistinguishable. In the obstructive the compress e type they are absent

MARY E M THES MD

#### ANÆSTHESIA

Herb I C. th I C. The Pr ent Status of Ethylen

The author states that undue publicity given the And author states that undur pauliety gards the caplosise hazard of ethylene is unfortunate as it may deprive patients surgeons and anasihetists of a orprise patients surgeous and automotives of a most valuable angainetic agent. The minimum most valuable auxiliarities agent the minimum amount of ethylene in air that is inflammable is amount to remarke in air that is minaminate is 3 of per cent. Tests have shown that explosions can Jos per cent acute mave suoma ente expressions can occur only in the dangerous area it fit above the occur only in the uningerous area; it above the mask and 2 it to the aide of the exhalation value Safety in the use of ethylene may be obtained by statety in the use of emprene may be obtained by removing sources of ignit in such as open flames and removing sources or ignin in soon as open names and cautenes. To prevent electrostatic explosion the hospital with which the author is connected has nospitat "its "mitted the author is connected has perfected a plan to ground all objects on which a

charge may exist At first a large sheet of steel was placed on the floor for this purpose Later the floor ing was changed to clossome terrazzo with brass strips. All operating room furniture is equipped with steps on operating room intimitute is equipped with several small brass chains long enough to drag on the door Since these precautions were taken no indi cotion of explosion has been seen in over 20 000

The author believes that ethylene possesses dis unct advantages over all other angesthetics especially then it is combined with local inflitation in pelvic operations and operations on the upper part of the George R. Mc tottiry M. D.

Ang I sco C and Tzo aru S S I SCO C and 120 aru S Considerations on the Mo tality in 120 000 Spinal Anasth sias (Q Iqu auty in 120 000 Spinal Angesth siage of n dirat as sur la m t ! té d ns xl 9 4 méd Pa 1933

This a ticle is based on data collected by 22 Auto a cicle is under our clara concerted by a commanian surgeons in 3 university centers and 9 provincial clinics. The authors point out that spinal anasthesia has definite indications and contra indi cations They list the contra indications as follows (r) massive hamorrhage shock and anemia (2) the measure measuremake short and american the least lessons with poor compensation (3) by poten son (4) acute toximias (intestinal obstruction) such toxerms and hypotens on uremia) and (5)

The statistics evice ed include all deaths that have occur ed during the time that spinal angesthesia nave octur tu ourneg the time that spinal has been used. The number of deaths was greatest in the beginning when the contra indications were the true regulating which the contra munications were less clearly understood and the technique was not so good as it a today Lyact determination of the good at it a tough the state of ng results or spinar anastrucia is unneur occasion of the different techn ques used by the surgeons in of the different feeting ques used or the surface of different local tie. In 2 467 cases of spinal areas onte ent tocat tie in 2 407 cases or spinar arices thesa collected by Forgue and Basset in 1918 from all over the vild there vere 60 deaths

In the 12 037 cases eve sed by the authors the tree is 957 (and originated by the authors which rep esent the combined figures of 23 surgeons there were 38 deaths (r death in each 3 158 cases) tines were 30 occasion (1 occasio in each 3 130 cases). In 33 cases the causes of death 1 ere as follows in 33 cases the causes of death 1 cre as 100000.

cardiovascular collapse 23 Cases meningitis 5
cases respiratory fa lure 4 cases and Costitis 1 case icapitatiny is time i cases and common case. The time of death in these 33 cases was as at the end of the intraspinal injection 7 course during the course of the operation 12 cases with a twenty four hours 7 cases and after twenty four hours 7 cases

ur nours y cases
The mortal ty was no higher if it was not lower than that of chloroform anesthesia. In a series of tons that or emorotorm anasthesia in a series of S of sp nal anasthe ias induced in children from four to five years of age which were recently reported by Balacesco there were no deaths.

if the cont a nd cations are considered carefully in each case and the patient is watched not only in each case and the pat ent is waterned not only during the operation but at least twenty f ur bours sternard so that adrenain ephedone lobel ne or carbon d onde may be administered promptly the mortal ty can be kept very low particularly since

less toric anæsthetic substances have come into common use and ephedrine is given to prevent hypotension Marsh W Poole, M D

Bakay, L Local Anæsthesia in Surgery (Die oertliche Betaeubung in der Chirurgie) Or oskepzés, 1933, xxii, 586

This is a report of experiences in the induction of 17,000 local anæsthesias in the author's clinic

Novocain is the least injurious of the cocaine derivatives. Its wide use is based on the fact that Braun began his experiments with this preparation The author has returned to the use of novocain after numerous experiments. With regard to the recent constant increase of propaganda for novocain substitutes, the author states that such substitutes should be used only if they possess advantages over novocain in all respects or serve better for some particular purpose Percain has the greatest anæsthetic power with the longest duration. It is readily sterilized and is bactericidal. On the other hand, it is more toxic and causes more local tissue damage than novocain Pantocain is no more toxic than novocain, is readily sterilized and combined with adrenalin, and causes minimal tissue irritation, but its anæsthetic action is slower, and it increases the tendency to bleed in the field of operation Novocain produces no serious toxic manifestations, and causes only transitory cerebral anæmia, palpitation, and vomiting in the cases in which, for some reason, it enters the circulation Tissue damage is sometimes seen after the use of novocainadrenalin solutions, but it is superficial and limited chiefly to the margins of the wound In some cases an idiosyncrasy of the patient such as a tendency toward angiospasm must be considered

In the author's material it was found that when local anæsthesia was used the incidence of pulmonary complications was reduced and the pulmonary complications which developed were much less severe. With regard to the incidence of throm-

bosis and embolism, it was noted that of 9,829 operations performed between 1915 and 1922, thrombosis occurred in 8 (o o8 per cent) and ratal pulmonary embolism in 2 (o o2 per cent), whereas of 8,688 operations performed between 1923 and 1927 thrombosis occurred in 39 (o 44 per cent) and embolism in 11 (0 12 per cent) During these periods the relative frequency of the use of general and local anæsthesia remained unchanged Fatal embolism occurred most often after herma operations, all of which were done under local anæsthesia. It was next most trequent after extensive operations for varicose veins, all of which were done under general anæsthesia. The author agrees with Tinsterer that the so-called operative shock following laparotomies performed under general anæsthesia never occurs when local anæsthesia is used and therefore a toxic action must be ascribed to the narcosis After prolonged operations, acidosis occurs also after local anæsthesia

Premedication with hypnotics does not decrease the value of local anæsthesia. Nevertheless, the author abandoned the use of scopolamine many years ago because it lowers the blood pressure Recently, good results have been obtained with scopolamine-eucodal-ephetonin. Basic narcotics, with the exception of pernocton, are also used

A needle devised by the author for splanchnic anæsthesia is described and shown in an illustration, also a needle for infiltration of the abdominal wall. Contrary to many surgeons, Bakay has noted no inadequacy of paravertebral anæsthesia. However, he states that a certain skill is required for conduction anæsthesia. After the abdominal cavity has been opened the pelvic organs are anæsthetized by injecting the solution into the triangle between the left and right common iliac veins. In this way the conduction of the presacral nerve and the hypogastric plevus is interrupted.

An important advantage of local anæsthesia is more careful handling of the tissues during operation Von Lormaner (Z)

#### PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

Deiling S Roentg n Therapy of Inflammatory Lesions in the R glon of the Face (De Roent g th ap tzu ndl ch E k nhungen m B re h des Ge chts) 1933 Lep Di e tati

During the n netcenth century it was generally be heved that especially large and painful furuncles and most fluctuating furuncles of the face s ell as of other parts of the body sho ld be incised whereas the smaller ones should be brought to ripening by conservative neasures such as the application of clay and acet c acid compre ses. During the last decades ho ever incision has been abandoned especially in cases of furuncles of the face, and conservative treatment (the passive hyperem a of Bier the niection of autogenous blood as recommended by Laewen parenteral inject ons of protein vaccine therapy) has been used inste d. Also soon aft r their d scovery the A rays were employed with success in the t eatment of furuncles (Morton 1004 L ler 1907) and their application was recognized as a useful favorable method as early as 10 4 (Schm dt) This treatment is followed by gene al muck softening and rapid ubs dence According to Schreuss (1020) 1rrad ation is of great importance

also in the prevention of recurrenc s On the bas s of an experience of years Heidenhain and Fr ed in 1024 rec mmended \ ray irradiation for the treat nent of progenic infect one of all types In furuncle of the face one irradiation is usually suffi ment t cause central soften or of the focus of infect on and subsidence of the cedema. Of fourteen cas s of furuncle of the face which had not been t eat d ore jously se en reacted excellently others a good result was dist notly evid nt Death occurred only in ty o cases in hich an operation had been pe formed pre jously el e here. The m nim i superficial dose was o per cent and the maximal uperficial dose was 25 per cent of the skin e y thema dose but the authors believe that 20 per cent of the skin erythema dose is most dependable Emmerich obtained heal ng of furuncles of the face at the latest after three or four days by rr diat on with one tenth of the skin erythem dose with the use of a hard filter. In 1930 Fried recommended tro ras the average dose. He irradiates from one to three times at inter als of from six to eight days using a filter of o 5 mm of zine or copper pl s from r to 5 mm of aluminum He claimed successful results in os s per cent of cases of furuncles of the face A succes ful result consists of subsidence of the bains improvement of the general condition and resorption or accelerated resolution of the focus of infec tion These results have been confirmed by many roentgenologists (Lukowsky Berndt Kramer Kalk

brenner Abbatt Leucutta Buzello) Otto has used considerably larger doses (350 r with a filter of 3 mm Ar) with good results. In addit on careful nursing and protective therapy are necessary as was empha sized e penally by kingreen and Holfel ler.

State that an Schooling read Despition have found as ly mired stom most successful whereas Schreuss believes that the best results are obtained only when the treatment is given in the stage of full ripen in the treatment is given in the stage of full ripen in the stage of the s

Of twenty nine cases of carbuncle Otto obt ined good results in twenty e en In two cases of c r buncle of the temple the effect of the treatment an pea ed to be unfavo at le (la ge central necroses prolongation of sloughing and delay of healing) According to Seemann a trial with irr diation the any should be mad routinely in cases of furun cles espec ally furuncle of the f ce as long as no un usu 1 ci cumstances demand immediate operation In the R entgenological In titute of the Surgical Ci nic of the University of Le p ig rr diation with ha d filtratio i was given in one or two sittings at interval of f om one to six d vs. The d se was usually 30 per cent and occasionally from 10 to 5 pe cent of the sk n erythema dose Twenty s x pa t ents with m ld or seve e furuncles of the face were ated In addit on to the \ ray irradiation and the neral measures heat was applied by means of the llux lamp and cover ng with an inactive ram id rubefacient ichthyol alve i used Under this treatment incipient furuncles were always re ab orbed the pain was quickly releved and the temperature fell to normal a from twenty four to fo ty eight hours. The rad ation had no untoward effects. In a large number of case the healing process seemed to be lefinitely accel rated Whil recurrences wer not prevented the r re ab orption was brought about quickly by early renewed irradia t on Of thenth six cas a rapid complete healing esulted in seventeen and a distinctly favorable in fluence w s apparent in five In four (one f dia betes) the condition was influenced only slightly One patient with a carbuncle of the upper lip died

from pyem a three days after the irrad atton.
The incidence of successful results is given by
Heidenhain as 97 per cent by Seemann as 100 per
cent by Lukowsky as 706 per cent by Light as 97
per cent by Fried as 95 5 per cent and by Baensch
as 84 per cent.

In conclusion the author describes experiments carried out to study the biological course of healing under \ ray irradiat on Arrauz Hintzz (Z)

#### RADIUM

Holthusen, H Comparative Researches on the Action of Radium and the Roentgen Rays (Vergleichende Untersuchungen ueber die Wirkung von Roentgen- und Radiumstrahlen) Strahlentherapie, 1933, vlvi, 273

In a comparison of the action of roentgen and radium rays three variables must be especially considered the different wave lengths, the duration of the action of the rays, and the spatial distribution of the doses So long as it was impossible to measure the gamma rays, like the roentgen rays, in r units, the doses of roentgen and radium rays capable of producing the same amount of injury to the cells of ascaris eggs were used as the basis of comparison of erythema production Scarcely any difference was found in the degree of erythema produced by doses which had shown the same cell-injuring action in the experiments After it became possible to measure the gamma rays in r units with the aid of a photographic method, comparative experiments could be made on this basis

While the erythema from roentgen irradiation was more distinct at first, the erythema from the third wave of radium was about 20 per cent more marked Observations of the epilatory action showed a slight Experiments on advantage in favor of radium ascarıs eggs showed almost equal results with roentgen and radium rays, with a hardly appreciable difference indicating that the effect of radium was the stronger When roentgen rays were used, an influence on the course of the injury curve from quanta of various sizes could not be established No difference in the action of quanta of different sizes could be found even when this was investigated in the smallest spaces, in the chromosomes of the cell The form of the injury pictures remained the same whether the ascams eggs were treated up to the same degree of injury with beta, roentgen, or gamma rays, whereas a marked difference between

the action of ultraviolet and roentgen rays was noted. The experiment therefore provided no basis for the assumption of a difference in the mode of action of radium and roentgen rays. The action is quantitatively proportional to the number of electrons formed. However, the time of application of the doses is of great importance.

The total doses which lead to erythema when the afflux is from 0 5 to 500 r per minute are reported Curves for the production of the erythema of epidermitis sicca, the tolerance dose, and the epilation dose are presented The less the intensity of the irradiation, the larger the dose essential for the Whereas tolerance, eryproduction of erythema thema, and epilation doses approach one another more and more closely with high intensities, they run far apart with decreasing intensities The epilation curve is the flattest Cumulation is greatest in the hair papillæ A further illustration shows how these curves would meet with Mutcheller's dose in infinity It is important that the doses producing erythema and connective tissue injury deviate to the same degree as the epilation and erythema doses This deviation is responsible for the change in the quality of the action of the irradiations with the intensity What applies to protraction applies fundamentally also to fractioning

From clinical observations it may be presumed that continuous irradiation with low intensity gives the best therapeutic results. On the other hand, the disadvantage of the non-homogeneous spatial distribution of the dose of radium is of great advantage. It permits the administration of extremely large doses to very small areas. The great advantage of radium lies in the possibility of spatial concentration of the action of the rays and contact irradiation in addition to the possibility of continuous irradiation with low intensity. The determination of the best temporal conditions for influencing the disease focus will yield the best results.

BRAUN (Z)

#### MISCELLANEOUS

#### CLINICAL ENTITIES—GENERAL I HYSIO LOGICAL CONDITIONS

Tittel D The Development of So Called Car e in Teeth in Dermoid Cysts of the Ovaries (Web d Ent.t hung de sog nan te Ca san Zach n in De mo deysten der Ov n n) ij r Z k le k

in De mo deysten der Ov 11 13) 1 1 7 2 k le k
1933 is 299

From his studies the author dra s the f llow ng

conclusions
x D fects of the cro as of teeth found in dermoid

cysts of the o ares are not due to true caries but are phenomena of resorption

2 With regard to the genes f the escription phen mean there is no difference better ea a tooth found in a dermoid cyst and a tooth in the mo th In both there are meanchymal reactions hich under physiological conditions (m lk letelh) and rathological conditions (referention) ause the h d substances of the tooth to undergo resorptic e soften in a condition of the conditions (referention).

3 The theories pix io isly advarced to explain the resorption processes or in nig in oral techt (the so called inflammatory theo;) the foreign hody from a call the implantation on the ryl must be reected as explanations of the caus I genesis of these phenomena. They are insufficient i explain the resorption processes observed in the oral teeth or teeth found in dermoid cyst.

The William of a fact by a formed resorpt in processes occur when the physicologi al equal bruin be tween the mesoblast and the pa ablast is disturbed into a robby for the p r b li at A possible cause of resorption processes in a t oth contained in a demoid; c, t a dwst ophys of the par blast setting up the bissue react in so of the vascular connect e statement of the desired and the statement of the third and the statement of t

5 According to the findings of a stological examination in the resorption processes occurring in a toolt contained in a Jermoid cyst occur before penetration of the toolt into it elimine of the cyt. Therefore the de alciving action of the acids present in the cyst critical examination of the contained of the promary cause of the delect. The possibility that decadic ration so produced may act see aday in the theoretically but already present must feel theretically but on the case reviewed it is action was not observed in the case reviewed it is action was not observed.

Mankin W R and W I h A M The Chemical Analysi of A w Growths Corr lated with Th let 1 att ological Examination M d J A tale 1933 u 7 8 The author determined the sodium potass um

The author determined the solidin polass in calcium-chloride and a trogen content of ne plastic t ssue to see whether an outstan lingly high concentration of any one or all of these ions occurred The pathological nature of the various new growths was carefully determined by both qualitative and quantitative methods Small pieces of the tumor t saue were embedded and sectioned and the remander used for chemical analysis. By cutting sections of uniform thickness and then counting from 50 to 100 field in each section the percentage of tumor tissue could be determined fairly accurate ly As the growing neoplasm is ecompanied in its gro th by amous other tissues such as v scular stron a and inflammatory tissue the non neoplast of tissu must be considered in the estimation of the amount of tumor tissue. Lurther difficulties are enc untered when it is desired to compare the results f chemical analysis of neoplastic tissue with those of chemical analysis of correst onding normal t ssue The epithelial new gro the cau e the lea t difficulty in this re pect becau e they arise from an

already highly spec al red tiss e Sarcomata fre quently arise from connective tissue. The second part of the article gi es a summary of v o k done in recent years which indicates that the is as nder descuss in have a very definite physico-chemical rôle modifying the properties of the organic natter of the cell. The c life dial protoplasm

I the cell is able to re-create its complex chemical turture and also to change its composition with reference to a basic element such as introgen. After see weight the colloidal hemistry of the cell the author states that to a la ge extent the properties of a lying tisse depend on the types and concentration of salts, both with a and outs de of the cell that the colloid is the control of the cell that the colloid is the cell that the colloid is the colloid in the colloid is the colloid in the cell that the colloid is the colloid in the colloid in the colloid in the colloid is the colloid in the col

buch nod cates the v symp typ s of taxue precent in the specimen examine! Increased cellularity in general is ac companied by an increased potassium oct in at a fact substant sing the view that potasium is contained mainly in the cells of the trissie. Hen me aparily growing tumors tend to have a slowly growing tumors the contract of the store that the contract such as the contract such as the contract such as the metal content of the metal content suon of introgen. In the metal content of individual tumors of differ at the special content such proposal of the same type a marked variant in its found in the series of breast tumors the soft of and the indecontaint are approximately the same time and the indecontaint are approximately the same in

The amounts of chlonde potassi m calci to sodium and n trogen and the propo tions of timer cells fibrous t s ue and other types of cells n van ous kinds of timors are given in tables and the

pathological findings in 20 cases are summarized CLARENCE C REED, M D

Murray, J A The Bearing of the Experimental Induction of Cancer on Our Conceptions of Its Nature and Causation Glasgow M J, 1934, CYY1, I

The author has confirmed the work of Jensen which indicates that if the cells of newly transplanted tumor material are disintegrated before their introduction, no growths are produced This observation supports the theory that parenchyma cells constitute the essential part of a malignant new growth, and that the peculiar properties of the tumor are due to cellular differences between the parenchyma cells and the corresponding normal cells of the body Whether the growth is a mammary carcinoma, a squamous cell carcinoma of the skin, or a spindlecell, a melanotic, or a mast-cell sarcoma, each strain remains distinct in structure, cell form, and rate and habit of growth

No structural or functional difference has been found which separates malignant new growths definitely from the corresponding normal tissues of the body The difference is that of behavior which is progressive growth continuing as long as the bearer lives and, as transplantation experiments show, is apparently unlimited The peculiarities of behavior of new growths and their emancipation from the control which holds the elements of the body together as a fairly harmonious whole may be brought about by the combined action of more than one functional derangement working together to produce effects greatly in excess of the sum of their individual consequences M HERBERT BARKER, M D

#### DUCTLESS GLANDS

Kennedy, F. S., and Fisher, J. H. Syphilis of the Pituitary Body. Am. J. Syphilis, 1934, xviii, 12

The authors report a case of syphilis of the pituitary body discovered in the course of a routine autopsy procedure The subject was a woman fiftyeight years old who had suffered from acquired syphilis manifested by positive physical and serological findings over a period of years. No clinical evidence of pituitary disease had been noted. Death occurred suddenly, and autopsy was performed three hours later The surface findings at autopsy consisted of multiple healed cutaneous "tissue paper" scars over both arms and scattered diffusely over the trunk, and palpable right cervical, axillary, and inguinal lymph glands The aorta showed a syphthic aortitis On section of the brain an extensive hamorrhage was found to have torn completely through the right internal capsule and to have extended into, and filled, the right lateral ventricle with clotted blood The right thalamus was partially torn across and displaced laterally into the lateral ventricle The hæmorrhage had torn through the septum lucidum, extending into the left lateral ventricle The pituitary body was not weighed It

appeared to be of normal size and contour Grossly, no abnormalities were noted There was no distortion of the sella turcica

Microscopic examination revealed syphilitic aortitis and gummata of the liver and pituitary body Approximately, one-third of the anterior lobe of the pituitary body was involved by a gummatous process This consisted of numerous miliary gummata, most of which were conglomerate, forming confluent areas of newly formed tissue Toward the periphery of the lesion, however, small isolated gummata were observed. The lesions extended to a point near the pars intermedia, but the pars intermedia and posterior lobe were not involved. At one point the gummatous process extended outward almost to the capsule However, the capsule was intact The gummata were composed of collections of epithelioid cells with no evidence of caseation Narrow zones of lymphocytes surrounded most of the gummata Many quite large, well-formed giant cells were found in the gummatous area. In the involved area nearly all of the acinar tissue had been destroyed and replaced by newly formed tissue which had increased the bulk of the pituitary body little, if any

As diabetes insipidus is the most common clinical manifestation of syphilis of the pituitary body, a Wassermann test of the blood and spinal fluid should be made in cases of diabetes insipidus most common manifestation is the syndrome of dystrophia adiposa genitalis Sometimes this has been present with diabetes insipidus. Various other clinical manifestations such as hypophyseal cachevia, special ocular signs, deformity of the sella turcica, hypotonia, symptoms of pituitary tumor, and mental disturbances such as agitated depressions and unstable emotional reactions have been recorded Syphilis of the pituitary body has frequently been associated with syphilitic lesions of the basal ganglia, spinal cord, and meninges In congenital cases, infantilism and dwarfism have been observed There may be an intimate relationship between intranasal chancres and syphilis of the

pituitary body

Thirty-six cases of acquired syphilis of the pituitary body which were confirmed by autopsy and nineteen cases in which the diagnosis was based on clinical findings only are reviewed from the literature Thirty-four cases of the congenital type were found

The treponema pallidum has very rarely been demonstrated in the pituitary body in cases of acquired syphilis In cases of congenital syphilis it has been found there much more frequently. In the case reported by the authors no attempt was made to find it because the tissues were fixed before the syphilitic nature of the condition was recog-Sections stained for the tubercle bacillus failed to show its presence

The importance of routine studies of the pituitary body at autopsy in all cases of syphilis is stressed

CHARLES BARON M D

B logorodskij V The Clinical Fe tures of the larathyroid GI nds Acco ding to on Oppels Materi I (De khnik d' Epith ik erperch ach d'm Materi Oppi) i est Cl 933 lxxi 1 xxi 3

This article is a short resumé of a quite large number (at least twenty eight) reports of clinical invest gations on the physiopathology of the para thyroid glands which ere carried out following the lead of you Oppel The investigations began with measurements of the blood calcium in su gical tuber culosis Since in most of the cases a fall in the blood calc um was demonstrated you Oopel tried to comhat the fall by the subcutaneous implantation of bone Special control experiments (Schmidt and Obrazcov) demonstrated that such implants cause an elevation of the blood calcium and therefore ex plain the beneficial local and general effect of the Albee operation Achutin and Andrejev determined that seps produces a marked disturbance of the calcium balance and parathyro d function. This observation explains the use of calcium therapy in sepsis In cases of fr cture Gusarov observed regu lar changes in the blood calcium hich resulted in delay of callus formation in hypoparathyroid and hypocalcarmic conditions. Under such conditions inject ones of bom meal and partialyroid transplants have proved hencifical. In latent spassnophila and have proved hencifical. In latent spassnophila and rout a tauphants have been emphod as such and a transplants have been emphod as such and a transplants have been emphod as such as the provided have been applied to the provided as the provided have been applied to the provided ha

Hypercalexma shown by von Oppel to be the cause of ank) losing polyarthritis is being combated by him and his pupils by numerous parathyroidec tomies. Vithough the ank) losed joints do not be come mo able again the beginning stiffening is in fluenced favorably.

Non Oppel had assumed that parathyroid function is regulated by the adrenal hormone. Recent expenients have convinced him that injections of adrena hin have no definite indivence on the normal calcium picture. However a lov blood calcium will be regularly raised and an abnormally high blood calcium.

ill be regularly lowered by such injections
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# BIBLIOGRAPHY of CURRENT LITERATURE

NOTE-THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

# SURGERY OF THE HEAD AND NECK

#### Head

Cirsoid aneurism of the scalp \ G Smith Brit M J,

Cyst formations of the skull J Chorobski and L Davis Surg, Gynec & Obst., 1934, lvin, 12
Fibroma of the base of the skull T Bykai Or-

voskepzes, 1932, xxii, 730 Skin lesions of the face L Thow Canadian M Ass

J, 1934, xxx, 57
Fractures of the mandible C H Mack and J H Con-

NELLY U S Nav M Bull, 1934, XXII, 31

The treatment of cases of fracture dislocation of the head of the mandible K Posr Zentralbl f Chir, 1933, p 2118

Isolated traumatic fractures of the condyloid process of the mandible R LEFMANN 1933 Hamburg, Disserta

Differential diagnosis of large cysts of the law M Ass

Sovet Chir, 1933, 1V, 234

Chronic osteomyelitis of the mandible with an impacted tooth, aggravated by extraction of the tooth G BAGGIO Policlin, Rome, 1933, xl, sez prat 1099

Carcinoma of the maxilla and ethmoid E D D DAVIS

Brit M J, 1934, 1, 53

Melanotic sarcoma of the right maxilla (malignant epulis) F H B NORRIE J Laryngol & Otol, 1934, xlıx, 49

Three cases of submaxillary lithiasis P Roques Rull [401] et mem. Soc nat de chir, 1933, lix, 1386

The eye in relation to modern industry W H. SNYDER Ohio State M J, 1934, xxx, 29

Lead poisoning in the first century W J RUTHERFURD

Bnt J Ophth , 1934, xvm, 36 Three cases of arachnodactyly with ocular signs E F KING Proc Roy Soc Med, Lond, 1934, XXVII, 298
An optometer J D M CARDELL Proc Roy Soc Med , Lond , 1934, vxvii, 303

The testing of visual acuity C E TERREE and G
RAND Am J Ophth, 1934, vvii, 29
Problem J Ophth 1934, vvii, 29

Problems in the physiology of visual acuity F H
ADLER, Arch Ophth, 1934, xt, 6

Visual sensation produced by roentgen and radium rays S R GIFFORD and E E BARTH Arch Ophth, 1934, XI

The first medical refractionists H TRIEDENWALD Arch Ophth , 1934, X1, 67

The mechanism of the cross cylinder H R HILDRETH

Am J Ophth , 1934, xv11, 39 Contact lenses and their application T V BERTOTTO Rev med d Rosario, 1933, xxiii, 966

Intracapsular extraction in highly myopic eyes LISCHNIG Arch Ophth, 1934, XI, 04

Blindness and papillodema in Guernsey calves, a second communication G E DE SCHWLINITY and P DE LONG

\rch Ophth , 1934, \1, 194 Monocular proptosis (left) with retinal changes M L Hive Proc Roy Soc Med , Lond , 1934, xxvi, 300

Increased intra-ocular tension in young persons as a cause of severe frontal headache R L RAYMOND Brit

M J, 1931, 1, 102 The ctiology of glaucoma Sir S Duke-Eldir and

LADY DUKE-LIDER Arch Ophth , 1934, x1, 49

Pathological anatomy of the angle of the anterior chamber of the iris and ciliary body in glaucoma B Courtis Rev \soc med argent, 1933, xlvn, 3434

Pathological anatomy of the cornea in glaucoma B

COURTIS Semana med, 1933, vl, 1424

Lævo-glaucosan and epincphrine bitartrate in the treatment of glaucoma L f Post Arch Ophth, 1934, 11, 187 Schueller-Christian disease (xanthomatosis), report of a case with postmortem observations J M WHEELER

Arch Ophth, 1934, vi, 214
Sarcoma of the lid C S DAMEL Rev Asoc med

argent , 1933, xlv11, 3442 Xanthomatosis of the orbit, a report of two cases A

KNAPP Arch Ophth, 1934, 11, 141 Preliminary report on orbital tumors G HARDY and

W T HARDY Am J Ophth, 1934, XVII, 18 Lymphosarcoma invading the orbit R J Sisson J

Michigan State M Soc, 1934, XXIII, 21 The ocular muscles, a medical problem A D RUEDE-

MANN Med Chin North Am, 1934, vvii, 1017

Conjunctivitis produced by a ground beetle

CHOPRA Indian M Gaz, 1934, lxix, 23 The source of staphylococci on normal conjunctiva of the human eye G H Gowen Am J Ophth , 1934, vvii,

Tuberculosis III Phlyctenular conjunctivitis, its relation to tuberculosis as shown by roentgenological and clinical observations in seventy-one cases M GOLDSTEIN and C L Wood Am J Dis Child, 1934, xlvn, 171
Bilateral conjunctival cysts B W Rycroft Proc

Roy Soc Med , Lond , 1934, XXVII, 301

Forceps for pterygium operation C Brito Rev Sud-Am de med, et de chir, 1933, 19, 743
Conical cornea complicated by acute ectasia G E

BERNER Am J Ophth, 1934, XVII, 22

Optical treatment of Keratoconus and Keratoglobus, contact lens E Huber Rev med d Rosario, 1933, XMI, 973 Keratitis bullosa W T Davis Am J Ophth, 1934,

Tuberculous keratitis treated by local ultraviolet irra-**TV11, 24** diation I W LAW Proc Roy Soc Med , Lond , 1934,

Bilateral necrosis of the cornea following the use of hair dye on the eyebrows and lashes C T MORAN J Am M Ass , 1934, cn, 286

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Postnasal tumor, a case for diagnosis J C Hoca Proc Roy Soc Med Lond 1934 xxvii, 214

The nasal sinuses the present status of their treatment 1 B Wessels California & West Med , 1034, xl, 38

The importance of roentgenological examination of the sing is in chronic arthritis, with special reference to eases in which the sinuses are a silent focus of infection. R. G. SNIDER S LINEMAN, and C TENELLE Arch Otolary nool, 10 37, XIX 23

Sinusitis in children R Leonco Laryngo cope, 1934,

I case of suppuration in the right frontal sinus not revealed by the Vrays, sedden death. Altrige abscess in the trontal lobe W M Mottison J I tryingol & Otol, 1934 tlix, 45

I new intrinsal operation on the ethmoid sinus. L. P.

Mossos Arch Otolaryngol, 1934 xir 10

The maxillary antrum and its dental neighbor W 1

Wells Virginia M Month, 1954 lt. 606

The diagnosis of marillary sinusitis by the use of opaque oils R C Beffer and J N Corres J Indiana State M 15, 19,4, 22(11, 4

#### Mouth

The relationship of discress of the mouth and general dicase L Charlese Rassegn internaz dichn e terip, 1933, W. 1101

Ulceromembranous stomatitis I W I vriirop J Med

Soc Yen Jersey, 1931, txx1, 35

Vincent's infection or trench mouth J J CREME Texas State J. M., 1934, xux, 557

The clinical aspect of oral mycology D MACHARAN

Laryngoscope 1934 vliv, 29

The laboratory diagnosis of oral mycoscs 1 D WriD-

Min laryngoscope, 1934 this, 11

Noma treated early by thermocuterization and antigangrene serum therapy Cure P Dentil Bull et mem Soc de charur, tens de Par, 1933, exv, 620 [404] Cancer of the mouth C I GGERS Ann Surg, 1934 [404][104]

I second primary cancer in cases of cancer of the buccal mucosa A mathematical study of susceptibility to cancer C C Lund New England J Med, 1953, cciv,

1114

[404] Causes and prevention of fulures following operation for bilateral harclip H I KALLIES Chirurg, 1933, v 704 I pithelioma of the lip, with particular reference to

lymph node metastases R. H KENNEDY Ann Surg, 1934, TCIX, 81

Cleft palate W L M WARDILL Brit J Surg , 103 XXI, 347

Contribution to the study of palatine fissures and harclip E CISELLI Rev med I at 1m, 1933, xix, 119 [405] Progressive ulcerative reticulosis of the palate

Hull J Laryngol & Otol, 1934, xlix, 35 [405] Cancer of the hard palate, two cases J J ROBB Brit M J, 1934, 1, 103

Palatoplasty using extra-oral tissues A D Divis Ann Surg, 1934, xcix, 94 [406]

The diagnosis of tumors of the tongue G JICHNIN Sovet Vestn Venerol 1 Dermat, 1932, 1, 42

The early diagnosis of cancer of the tongue and lip W A CURRY Canadian M Ass J, 1934, xxx, 50

Specimen, posterior half of tongue and entire hyoid bone removed by median pharyngotomy on account of car-cinomatous ulcer J 1 Simpson Proc Roy Soc Med, Lond, 1934, xxvii, 216

The purulent processes in the floor of the mouth and the deep interstitial spaces of the skull M Wissmund

Deutsche Ztschr f Chir, 1933, ccxl, 681

#### Pharynx

The nerve supply of the musculus vocalis P St NDFR-Aschr f Hals, Nasen, u Ohrenheilk, Phalesully 1055 37711, 195

The motor supply of the human posterior crico ary tenoid muscle P Supper Prissarias Zischr f Hals, Nisen,

u Ohrenheilk, 1935 xxxii, 586

Two cases of pharyngeal diverticulum. I. Coulence

J Laryngol & Otol 1934, xlix 46

Ludwig's angina 1 Divitrors Guthrie Clin Bull, Sayre, Pennsylvania, 1934, 111, 100

I tumor of the tonsil H BINCULLI Semana med,

1933, xl, 1755 The treatment of malignant tumors of the tonsils. A

VERESCENSEL Nov. chir Arch., 1033, XXVIII, 44
Met est itic melanos ircoma of the tonsils. V. K. Hart

and R. H. CRAWFORD. South M. J., 1034, xxvii, 12.

Tonsil electroco-igulation with the bi active electrode. J B H WARING Virginia M Month 1931, lx 650

Importance of the arteral supply in surgery of the phar yne, with particular reference to the pulatine tonsil. J. M. JORCE and R BROLLS Res Asoc med argent, 1935, 71511, 33 ft

Dissection of tonsils and tonsil stumps R H Good

Illinois M. J., 1934, lxv., 37

What can we do to diminish the number of tonsil operations? T B LAYTON Lancet, 1934, cerryl, 117

#### Neck

A lateral congenital fistula of the neck I C SARAvia Bol y trab Soc de cirug de Buenos Aires 1933, xvii, 1224

Consenital cartilaginous rests in the neck W B MAT-

THEWS Arch Surg , 1934, xxvm, 59

Specimen, torsion of a fibroid polyp of the pyritorm fossa J I Simpson Proc Roy Soc Med Lond, 1934, XXVII, 210

Voluminous epithelioma of the aryteno epiglottic region, removal by retrothyroid pharyngotomy L Defour-MENTEL Bull et mem Soc d'chirurgiens de Par, 1933, xxv, 688

Carcinoma of the epiglottis M L PORMBY Proc Roy Soc Med , Lond , 1931, xxvii, 216

Studies of the thyroid gland V I oc vielli Spen mentale, 1933, lxxvii, 639

Lateral aberrant thyroid glands J \ Lizirus and A \ ROSENTHAL Ann Surg, 1933, xcviii, 1025 Anomalies of the thyroid aland in relationship to the radio activity of the water A Marchesa Rassegna in

ternaz di elin e terap, 1933, xiv, 1178 The production of scrum inhibitory to the thyrotropic

hormone J B Collip and L M Anderson Lancet. 1934, ccxxv1, 76 Perforation of the esophagus with injury to the thyroid

gland following the swillowing of a fish bone I Hirsch-FELD Zentralbl f Chir, 1933, p 1790

The basal metabolism in diseases of the thyroid and hypophysis 1 Jucenburg Vestnik Rentgenol, 1932, x, 74 Thyroid nodules in the lateral neck region J M HAN-

Leg ulcers due to thyroid dysfunction M H. Cohen

J Am M Ass, 1934, cu, 283 [407] Transplantation of the thyroid in myxcedema GINZBURG Azerbajdžan TAGIBEROV and J med Ztschr, 1932, 1/111, 85

The differential diagnosis between hyperthyroidism and postencephalitic syndromes J Tucker Med Clin

North Am , 1934, xvii, 939

The cerebral accidents in cranial traumata, experimental studies WERTHEIMER and FONT LINE Lyon chir, 1933, XXX, 713

The treatment of traumatic lesions of the skull and brain

R DENIS J de chir, 1933, xlii, 873

The healing of brain wounds due to electrocoagulation F M Lissiza and S J Minkin Arch f klin Chir, 1933, clxxv, 288

Two cases of ventricular hæmorrhage Do these hæmorrhagespresent operative indications? H Brunnschweiler

Schweiz med Wchnschr, 1933, 11, 908

Clinical symptoms and pathogenesis of subarachnoid hæmorrhage N Mazylo Azerbaldzan med Ztschr,

1932, 1/111, 125

The surgical treatment of contractures and postapoplectic jacksonian crises G DE Morsier and R Fischer Presse méd , Par , 1934, vln, 19

The treatment of infected wounds of the brain with bacterial filtrates J R. B Branch, A A Lempert, and R S LYMAN Arch Surg , 1934, XXVIII, 189

A case of secondary actinomycosis of the third ventricle in the region of the infundibulum, and miliary actinomycosis of the brain A CERNISEV and E Rossels Sovet Nevropat, 1932, 1, 198

Brain abscess following gunshot wound of the skull I

DINITRIEV Vestnik Chir, 1932, lxxviii/lxxix, 159 A case presentation of brain abscesses originating in otorhinological foci L M DAVIDOFF Laryngoscope, 1934, xlıv, 62

The modern treatment of brain abscess H P CAHILL J Am M Ass, 1934, cn, 273 [410] Intracranial pneumatocele H LAFFITTE Bull et mem

Soc nat de chir, 1933, lix, 1390 [410]
Cerebral cysts W McK Craic and J W Kernohan
(410) [410] J Am M Ass, 1934, cu, 5 [410]

Brain tumors L SACHS J Indiana State M Ass, 1934, XXVII, 1

A contribution to the study of tumors of the hypophysis G Roussi and C OBURLING Presse mid, Par, 1933 No 92, 1799 [410] The nature and origin of some tumors of the cercbellum,

medulloblastoma L Srevenson and T LCHLIN Arch Neurol & Psychiat, 1934, xxxi, 93 [411] The frequency with which tumors in various parts of

the brain produce severe headache T A GIBBS Arch

Neurol & Psychiat, 1934, XXXI, 152
Deformation of the sella turcica in tumors of the middle cranial fossa K KORNBIUM Am J Roentgenol, 1934 XXXI, 23 14111

Deviation of the aqueduct of sylvius and the fourth ventricle as a sign of tumor of the posterior fossa. Iodo ventriculography R CARRILLO Arch argent de neurol 1933, 1x, 21 [412]

Neurofibromatosis in children, a report of two cases C C STEWART New England J Med , 1934, ccx, 150 Primary fibrochondro osteotoma of the brain

JAKOB and L A PEDACE Arch argent de neurol, 1933, lx, 13

Neoplasm of the choroid plexus, report of a case with a review of the literature G W GRAVES and M M FLIESS Am J Dis Child, 1934, xlvii, 97

Gliomatosis and partial gliomatous encephalomegaly F Big Mi Policlin, Rome, 1933, vl, sez med 841

In operatively cured cholesteatoma of the middle cranial lossa the size of a man's fist W LOEHR and W JACOBI Zentralbl f Chir, 1933, p 1875

Two cases of medullo epithelioma (Bailey and Cushing), with special reference to the relative malignancy of this type of tumor J G GREENFIELD J Path & Bacteriol, 1934, TXXVIII, 11

A plastic coagulant mass for operations on the skull B Fuchs Nov chir Arch, 1933, xxvii, 561

A new method of approach to the cerebellum JUCKELSON Nov chir Arch, 1933, XXVII, 490

Tentonum cerebelli in operations on the posterior fossa I GRIGOROVSKIJ Vestnik Chir, 1932, lxxviii/lxxix, 148 Resection of the internal carotid nerve G Pieri Ann

ital di chir, 1933, xii, 1028 Regeneration of the inferior and superior alveolar nerves after operation and traumata K HEILMANN 1933 I eip-

zig, Dissertation

Alcohol injection of the gasserian ganglion because of carcinoma of the jaw under roentgen control H STI ISNY Zentralbl f Chir, 1933, p 1764

A method of injection of the facial nerve J Whillis

Lancet, 1934, ccxxv1, 184

#### Spinal Cord and Its Coverings

The pathology of the intervertebral disks N GLADY-REVSKIJ Sovet Klin, 1932, AVIII, 229

A roentgenographic study of a particular type of spinal cord compression G Quarti Radiol med, 1933, xx, 1568

Inflammations of the cauda equina of undetermined origin J DEREUX and J LEDIEU Presse med, Par, 1933, xlı, 2037

Fibroma of the cord D Bogorodinskij Vestnik Chir,

1932, lxxviii/lxxix, 187

Notes on a series of spinal cord tumors F C GRANT

Am J Surg , 1934, xxiii, 89

The method of approach to the upper two segments of the cord and the low bulbar region L SABADINI I de chir, 1933, xlii, 862

#### Peripheral Nerves

Suprarenal and pituitary tumors and their correlation with experimental findings Proc Roy Soc Med , Lond , 1934, axvii, 271

The nature of painful symptom complexes following injuries to the nerve trunks M Skoblo Nov chir Arch,

1933, XXVIII, 19

Generalized and dissociated types of von Recklinghausen's disease, neuro ectodermatosis L CORNIL, P Kissel, A Beau, and J Alliez Presse med, Par, 1933, xlı, 2077

Injury to the median nerve in the lower part of the forearm followed by paralysis, end-to-end suture, good result N BARBILIAN Bull et mem Soc nat de chir, 1933, lix, 1477

#### Sympathetic Nerves

The sympathetic system and pain phenomena R C SHAW Arch Surg , 1933, XXVII, 1072 [412] The value of operations upon the sympathetic nervous system in various conditions K GAVRILOV Sovet. Chir,

1933, 10, 57

Considerations of the indications for operation on the sympathetic system in the treatment of posttraumatic reflexes R LERICHE and R FONTAINE Presse med, Par, 1933, xlı, 2093

Changes in the neuroglia of the vegetative nervous system in patients with tumors M MUTILIMOV Azerbajdzan

med Ztschr, 1932, 1/11, 167
Tumors of the sympathetic nervous system neuroblastoma, paraganghoma, ganghoneuroma D Lewis and C T Geschickter Arch Surg, 1934, vxviii, 16 [413 A case of sympathoma J Bernardbeig and C L [413]

TAURE Bull et mem Soc nat de chir, 1933, lix, 1442

Darupti n of abd m nal ands F Merensy L L HO ES R. COLP R V GRAC W ( WHITE INC L ) Herb Ann Surg 1934 x it 5 Lostoperati e per ton al adh sons caus and n e en ti n. A. E Benjamin Minicesota Med 934 x 11 4 Encaps il ting pe tonitis LENORMANT Lyon chr

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The effect of radium irradiation on ovarian activity H ROTH Comptes rendus de la Soc tranç de gynec, 1933,

Autotransplantation of ovaries into the anterior chamber of the eye of the rabbit K Podleschka and H Dworzak Zentralbl f Gynael , 1933, p 2114 Ovanan hæmorrhage T RAPPOPORT Vestnik Chir ,

1932, lxxviii/lxxix, 173

Intestinal obstruction and an ovarian cyst V RICHE and E Mourgue-Molines Bull Soc d'obst et de gynéc

de Par, 1933, xx11, 769

A clinical case of ovarian abscess associated with parovanan cyst. E Forti Arch di ostet e ginec, 1933, vl, 804

Theca cell tumors of the ovary P J MELNICK and A E KANTER Am J Obst & Gynec, 1934, XXVII, 41 [427]

Solid teratoma of the ovary R W BINKLEY Calıforma & West. Med , 1934, xl, 42

The status of granulosa carcinomata of the ovary from the clinical, histological, and radiological standpoints H. O KLEINE Strahlentherapie, 1933, vlvii, 326 [427]
The treatment of tumors of the ovary H C TAYLOR,

JR New York State J M, 1934, xxxiv, 13

A review of operated ovarian tumors from the Second University Cynecological Clinic of Munich J TREU-TINGER 1932 Munich, Dissertation

#### External Genitalia

Pathogenicity of the monilia (Castellani), vaginitis and oral thrush H C HESSELTINE, I C BORTS, and E D PLASS Am J Obst & Gynec, 1934, xxvii, 112

Trachoma vaginitis A simplified treatment and an explanation for the frequencies of recurrences W K RUBLE

Northwest Med , 1934, xxxii, 14

Myoma in the anterior wall of the vagina P PETRIDIS Bull. Soc d'obst et de gynec de Par, 1933, xxii, 740

The treatment of cancer of the vagina E NOVOTELNOVA and O ARNSTAMM Vestnik Rentgenol, 1932, v, 319

#### Miscellaneous

Modern tendencies in gynecology and obstetrics J P ORFILA An Fac de med, Univ de Montevideo, 1933, Tvui, 417

Constitutional types of somatic femininity and their endocrine formula N PENDE Presse med , Par , 1933,

The use of the sero-interferometric test of Hirsch in gynecology, some experimental results A DESAUX and C O GUILLAUMIN Comptes rendus de la Soc franc de gynéc , 1933, m, 191

The relationship between the sympathetic-adrenal systems and the reproductive changes in the female genitalia

WALTHARD Muenchen med Wchnschr, 1933, 1, 638 Studies on the similarity between urinary substances assumed to be anterior hypophyseal lobe hormones and substances taken from the hypophysis A MARNERT Zentralbl f Gynaek, 1933, p 1572

The influence of opaque and caustic substances on the organs and tissues of the lesser pelvis. An experimental study A F GRIGORIEVA, A N MOROSOFF, and M G

SERDULOFF Gynéc et obst., 1933, xxvii, 608 [428]
On some effects produced by applying estrin to the skin of mice H Burrows and N M Kennaway Am J Cancer, 1934, XX, 48

The hormonal treatment of functional disturbances in gynecology F Siegert Jhurse aerztl. Fortbild, 1933, xxiv ip x

The effect of ovarian hormones on coagulation

LUNDBERC Svenska Lakartidningen, 1933, p 113 Ovarian therapy The relationship of the female sex hormone to hamophilia [ Brew and ] S Leopold ] Am M Ass, 1934, cu, 200

Clinical evaluation of combined prolan and anterior pituitary therapy C Mazer and B R. Katz Endo-[428] crinology, 1933, xvu, 709

The preparation of folliculin and the pharmacological problem associated therewith K GAD-ANDERSEN and C JARLV Ugesk f Læger, 1933, p 68

The value of diet therapy in gynecology J Novak

Fortschr d Therap, 1933, 1x, 524

The physiology of menstruation S GENELL Nord med Tidskr, 1933, p 677

Ovulation and menstruation R ARALA Semana méd, 19<u>33,</u> xl, 1549, 1714

The length of the human menstrual cycle C F FLUH-

MANN Am J Obst & Gynec , 1934, XVII, 73
A modern theory of menstruation C F FLUHMANN

Northwest Med , 1934, xxxiii, 10

The treatment of functional menstrual irregularities of young women D G DRIPS J Iowa State M Soc, 1934, T ,VIXY

Artificial stimulants for menstruation by the administration of ovarian hormones Loeser Ztschr f Geburtsh u Gynaek, 1933, cv, 501

The treatment of amenorrhoea with ovarian hormone

C KAUFMANN Klin Wchnschr, 1933, 11, 1557

Inveterate amenorrhœa treated and cured by diathermy coagulation J E MARCEL and T LAENNEC Comptes rendus de la Soc franç de gynéc, 1933, 111, 199

Sympathectomy for dysmenorrhea Proc Roy Soc

Med, Lond, 1934, XXVII, 258

The significance of menstrual disturbances in pulmonary tuberculosis H C Hesseltine and W M Speir Am J Obst & Gynec, 1934, xxvii, 32

Menstrual fever in tuberculous women J Lectoux and C CAREZ Rev belge d sc méd, 1933, v, 609

Agranulocytic angina associated with the menstrual

cycle H JACKSON, JR, D MERRILL, and M DUANE New England J Med, 1934, ccx, 175 Observations on the possible relation between agranulo-

cytosis and menstruation, with further studies on a case of cyclic neutropænia W P THOMPSON New England J Med, 1934, ccx, 176

Pelvic inflammation in women C H LUPTON ginia M Month , 1934, lx, 017

Newer concept of rheumatism and gynecology general nervous rheumatism and gynecological diseases

R MILNER Zentralbl f Gynael, 1933, p 1687 Leucorrhœa and its treatment L NUERNBERGER Muenchen med Wchnschr, 1933, 1, 715

The serum diagnosis of gonorrhoea in the female S SOMMER Ztschr f Geburtsh u Gynaek, 1933, cvi, 185 [429]

The gonococcus complement reaction in gynecological inflammatory diseases S VIDALOVIC. Lijec vijesnik [429] 1933, lv, 408

Observations on parasitism in gynecology G LEO Rev franç. de gynec et d'obst, 1933, xxviii, 834. [429]A rare localization for adenomyosis. H KIRCHNER

Zentralbl f Chir, 1933, p 2181 Neoplasms in congenital deformities of the internal female genitalia P Pixto Arch di ostet. e ginec, 1933, xl,

Tumors of the urethra C H PHILLIPS and M D Douglass Am J Obst. & Gynec, 1934, xxvii, 99 Endometrioma, report of a case. L L LEONARD J

Med Soc New Jersey, 1934, xxxi, 41

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[432]

The early signs of pre eclamptic toxumia, with special reference to the order of their appearance and their interrelation I J BROWNS J Obst & Gynuc Brit Emp [433] 1933, 31, 1160

The incidence, treatment, and mortality of cclampsia

J BINDER Am J Obst & Gynec, 1934, xxv11, 59 The etiology and treatment of anamia in pregnancy

M B STRAUSS J Am M Ass, 1934, cu, 281
Sickle cell anomia in pregnancy A F LASH Am J Sickle cell anæmia in pregnancy

Obst & Gynce, 1934, xxvii, 79 Epistaxis in pregnancy G ABREZZESF Arch di ostet

e ginec, 1933, rl, 742

Two cases of congenital heart disease in which the diagnosis was made before birth 1 L DIPPEL 1m J Obst & Gynec , 1934, xxv11, 120

The cutaneous reaction of pregnant women to substances causing wheals and bullie, an experimental study MERLINO Arch d ostet e ginec, 1933, vl, 707

The effect of monolateral suprarchalectomy upon the skin during pregnancy F P Donephu Riv ital di ginec, 1933, YV, 530

Pregnancy and acute appendicitis C I vrvoi Ztschr f Geburtsh u Gynaek, 1933, cv 449 Nephritis and pregnancy K Kider and H J STINDER

New York State J M, 1934, XXXIV, 5
Banti's disease and pregnancy I I ILLAFFERO Bol Soc de obst y ginco de Buenos Aires, 1933, vii, 764

Acritical study of tuberculosis and pregnancy Schultze-Rhonnor and Hansen Med Klin, 1033, 1, 765 The diagnosis and treatment of syphilis complicating

pregnancy N R INGRAHAM IR, and J L KAHLER Am J Obst & Gynec , 1934 xxvii, 134

Myomectomy in the third month of pregnancy, delivery normal at term R MAHON Bull Soc d obst. et de gynce

de Par, 1933, xxii, 760
Indications for artificial abortion Н MARTILS

Deutsche med Wehnschr, 1933, 11, 1115, 1160

Severe hemorrhage following postabortum curettage, retention forceps in the cervix, recovery M Poux Compt rend Soc franç de gynec, 1933, 111, 205

The results of abortion induced by intra abdominal operations on the uterus, associated with sterilization M STUTZ Arch f Gynack, 1933 clin, 512

#### Labor and Its Complications

The prenatal onset of the obliteration of the umbilical arteries as the cause of labor J MELLA Inat Anz, 1933, 1221, 194

Some observations concerning the use of medical agents in the induction of labor L Brewond Bull Soc d'obst et de gynec de Par, 1933, xx11, 780

Ergot and its rectal administration H KLEINSCHMIDT

1933 Lilangen, Dissertation

A complication arising during a premature induced labor BUTTLE and Salva Bull Soc d'obst et de gynec de Par, 1933, xxu, 762

Nembutal and scopolamine analgesia in labor, with a report of 160 cases L AVERLTT Am J Obst & Gynec,

The barbiturates and other hypnotics in labor I C
The barbiturates and other hypnotics in labor I C
Surg, Gynec 8 IRVING, S BERMAN, and H B NELSON Surg, Gynec & Obst , 1934, lvm, 1

Dystocia of maternal and fetal origin Sorbi Arch di ostet e ginec , 1933, vl, 739

The contraction ring complicating labor C R Hinah and W L Massey Texas State J M, 1934, xxix, 559 Contracted pelvis, frontal presentation, treatment by Zarate symphyseotomy M V Filsia Semana med, <sup>1933</sup>, xl, 1788

Persistent occiput-postenor presentations E Speidel South M J, 1934, xxv11, 28

Observations or uterine rupture during labor K BINGEL 1933 Cologne, Dissertation

Rupture of the uterus in a case of neglected shoulder presentation. LAPEARIE, BATTLE, and SAULA Bull Soc d'obst et de gynec de Par, 1933, van, 776

The use of an abdominal belt in the second stage of labor, our modification of the Werboff belt. L LEÓN and R A LERRARI Bol Soc de obst y ginec de Buenos Aires, 1933, XII, 748

I review of crestrean sections I F MAXWELL West

J Surg, Obst & Gyncc, 1934 vlu, 14 Cæstrean section I W Potter Texas State J M,

1934, 5712, 570

A discussion of abdominal casarean section Parker J South Carolina M Ass, 1934, xxx, 11

Casarean section in the treatment of placenta pravia

D \ Rojus Semana mcd, 1933, vl, 2072 \ case of high constrol section for placenta pravia Delmas and Battle Bull Soc d'obst et de ganec de Par, 1933, XXII 783

Discharge of the uterine cicatrix through the vagina dur ing a low cas irean section. Independent and Péri Bull Soc d obst ct de gynec de Par, 1933, xxii, 758

Late casarean section, a contribution on operative technique R Merger Gynec et obst, 1933, xxviii, 575 Spinal anæsthesia for casarean section in a patient with pyelonephritis T \ Chamorro Semana med , 1933, al,

Pathological results of cesarean section D Linds in

Lancet, 1934, cexxvi, 19

Manual removal of the placenta W SSOLOWJEW Monatsschr f Geburtsh u Gynaek, 1933, vcv, 34 [433] Adherent placenta, a report of a case resulting in ma ternal death C V GRFFN, JR U S Nav VI Bull 1934,

xxu, 45 Vaginal hysterectomy during labor W ROSENSTEIN

Monatsschr f Geburtsh u Gynaek, 1933, xciv, 282

#### Puerperium and Its Complications

The ecchymotic cervicofacial mask of parturient women CATHALA and BERNARD-GRIFFITHS Bull Soc dobst et de gyncc de Par, 1933, xxii, 735

The treatment of recent puerperal inversion of the uterus, with a report of five cases D N BARROWS Am J Obst

& Gyncc , 1934, xxvii, 105

A case of acute puerperal inversion of the uterus reduced manually under spinal anasthesia J Susini Presse med, Par , 1933, vh, 2076

The treatment of hæmorrhage in the puerperium R VORSTER Jkurse aerztl Fortbild, 1933, xxiv, 57

Anaerobic bacteria in the blood in puerperal infections Z BOHD NOWICZ and T JISINSKI Ginek polska, 1933 XII, 454

Severe puerperal infection, peritonitis, laparotomy, Vincent's serum, recovery PERY, BYLARD, and MANGE Bull Soc d'obst et de gynec de Par, 1933, xxii, 759

My method of treatment of puerperal sepsis with local intraparenchymatous vaccination F Spirito Zentralbl f Gynack, 1933, p 1933

Postpuerperal polyneuritis V Iswarian and P Ku TUMBIAH Indian W Gaz, 1934, lxix, 13

#### Newborn

Blood chemistry studies of normal newborn infants A HOLMAN and A MATHIEU Am J Obst & Gynec, 1934, **TXVII**, 95

The infl e of po tur up n the m em t of flu d in th tach a of th newbon D P MURPHY Am I Ob t In tach a of the newborn Drodukent Am Job C & Gymec 934 xx u 18 Ftlb the injuries with specil reference t 1 ta r mail is ons PB BLAND West Viginia M J 934

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#### Miscellaneous

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## Bladder, Urethra, and Penis

Absorption of urea from the bladder F A FENDER.

Arch Surg , 1934, xxvIII, 180

Urography as a guide to surgical indications of diverticula of the urinary bladder R H HERBST J Am M Ass , 1934, cu, 188

Carcinoma of the bladder with intraperitoneal perfora-

tion D Evans Lancet, 1934, ccxxvi, 185

Irradiation and electrosurgery in the management of carcinoma of the urinary bladder J T STEVENS Radiology, 1934, xx11, 99

Complete closure of the urmary bladder in cystotomy

cases M Whitby Lancet, 1934, ccxxvi, 81 A contribution to the study of urethrography N Hor-TOLOMEI and T KATZ-GALATZI J d'urol med et chir 1933, XXXVI, 321

Destruction of the urethra and loss of vesical control associated with vesicovaginal fistula, technique for its correction G G WARD Surg, Gynec & Obst, 1934, lviii,

Diverticulum of the anterior portion of the male urethra A von Adler-Rácz Ztschr f urol Chir, 1933, xxxvii,

Circumcision and syphilis V E LLOYD and N L LLOYD Brit M J, 1934, 1, 144

#### Genital Organs

Roentgenography and radiodiagnosis of the male genital tract—vaso-epididymo-vesiculography An experimental and clinical study W DOBRZANIECKI J de chir , 1933, xlii,

843
Alternating hermaphroditism with gynecomastia, microscopic examination of the right gonad C I URECHIA and

E Teposu Presse med, Par, 1933, vli, 2062

A ten year cure of splenic metastases of a seminoma following roentgen therapy in a pseudohermaphrodite A BÉCLÈRE Vestnik Rentgenol, 1932, 7, 15

An inquiry into the results of surgical treatment of genital tuberculosis in the male R O LEE and K Bowes Brit

J Surg , 1934, XXI, 456

The course of the first case of human balantidiosis observed in Uruguay R V TALICF, C A PELUFFO, and C Viero Arch urol de la clin de Necl er, 1933, 111, 676

Genito ano rectal lymphogranulomatosis of the male

W E Courts Ann Surg, 1934, xcix, 188
Diverticular formations in the prostate and disease of
the neck of the bladder The etiological relationship between these diverticular formations and chronic hypertrophic prostatitis, stenosis of the neck of the bladder, diverticula of the bladder, and ureteral and renal dilutations In attempt at preventive surgery of these lesions Heirz Boyla J d'urol med et chir, 1933, 111vi, 366

[438] I few cases of enlarged prostate P N SARKAR. Cal-

cutta M J, 1933, vevm, 179

Enlargement of the anterior portion of the prostate gland B S CRAN Brit J Surg, 1934, XXI, 453

Prostatic obstruction C W Collings J Am M Ass , 1934, CII, 123

Transurethral prostatic resection G J THOMPSON

Calıfornia & West Med , 1934, xl, 1

Transurethral electroresection of bladder-neck obstruction H L Kretschmer J Michigan State M Soc, 1934, XXXIII, I

Postoperative complications in transurethral surgery J R CAULK and J F PATTON J Am M Ass, 1934, Cu, [439]

The management of non-gonorrheal prostatitis P S

Pelouze South M J, 1934, xxvII, 43 Local infiltration anæsthesia of the prostate preliminary to resection W N WISHARD, JR, H G HAMER, and H O

MERTZ J Am M Ass, 1934, CII, 32 The surgical treatment of varicocele J LONDRES Ann

Surg , 1934, xcix, 185

A variant in the operative treatment of varicocele A FIŠANOVIČ Sovet chir, 1933, 1v, 94

Non-specific metastatic epididymitis W W Buck-

INGHAM J Urol, 1934, XXXI, 87
Gonorrhœal epididymitis R P Parsons U S Nav

M Bull, 1934, xxx11, 1 Local circulatory disturbances of the testicle H Hell-

NER Beitr z Llin Chir, 1933, chin, 225

Advantages and applicability of the Torek orchiopery for undescended testis A E W ADA Am J Surg, 1934,

TTIII, 133 Teratoma testis, fifteen cases studied microscopically and biologically C W STELLE Arch Surg, 1934, XXVIII, I Pathological physiology of teratoma testis R S TERGU-

SON J Am M Ass, 1933, C1, 1933 Malignancy of the undescended testicle R H. CRAW-

FORD South M & S , 1934, YCV1, 26

Embryonic carcinoma of the testicle C M Highes U S Nav M Bull, 1934, XXII, 55

Sarcoma of the testes R AKULOVA Vestnik Chir, 1932, lxxxii/lxxxiv, 120

The results of roentgen therapy for malignant tumors of the testes B Kohlmann Vestnik Rentgenol, 1932, x,

#### Miscellaneous

Physiology and pathological physiology of the dynamics of the urmary passageways M Muschit Am J Surg, 1934, XXIII, 129

Abdominal factors in urology I von Szabó Ztschr f

urol Chir, 1933, XXVII, 429

Modern concepts of genito urinary tuberculosis G J THOMAS and T J KINSELLA Am J Surg, 1934, XXIII, 111
Gonorrheal endocarditis, case report W W RICKS,

JR. J Oklahoma State M Ass, 1934, XXVII, 3 Diet in the treatment of infections of the urinary tract.

L CLARK Practitioner, 1934, CXXXII, 34

The relation of Vitamin A and Vitamin D to urinary calculus formation A R. Bliss, Jr., G R. Livermore, and E O Prather, Jr J Urol, 1933, xxx, 639

Nephrectomy table N I Ockerblad J Urol, 1934,

XXXI, 117

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

### Conditions of the Bones, Joints, Muscles, Tendons, Etc

The histogenesis of accessory skelet il elements, the os tibiale externum M R. FRANCILLON Lische f orthop Chir, 1953, lix, 513

Osteoporosis following trauma. J M Moore West Virginia M J, 1934, XXX, 22

Osteogenesis imperfecta. L GALACHON Sovet Chir. 1933, 1v, 226

I ragilitas ossium in five generations. H. Jo chi and M G Wiscii Ann. Int. Med , 1934, vii, \$53

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Mechanical instability of the shoulder joint in relation to the presentary and treatment of punful shoulders I P Blow and J G Kinss J Bore & Joint Surg 19 m. X 1, 20 [113]

Percapelar temburatis and pains in the upper extremate Dogs Bull at rich See had d hop de Par-

1011, the 1505

Bilateral numerus varus and concentral dysplaur of both hips theoretic dyschondroplasta. H. I. Rochi & Res d'orthop, 1933 vl 6,5

Removal of the hundrus for extensive ostcomyclitis in a n an of sixty these functional result it the end of four year R. Mo on Bull et mem Soc nat de chir, 1935, lx 1435

Cyst of the numerus D. Pander. Rassegn's internal

dicl n e terap , 1935, xiv, 1054

Osteochondromatosis of the elbow. Heritel, Mr LGICA and Di Aduris Bull, et mem Soc nat de chir, 1933, lix, 1510

Tuberculosis of the elliov A Korov Ortop a Irwmat,

1932, 11, 25

The etiology of Dupuytren's contracture H BOLHMI

1933 I reiburg L Br , Description

Sarcoma of the second metacarpal bone, case report and revies AL Olsos Minnesota Med, 1934 vin, 24 Primary ostcomyclitis of a philanx of Rocernort

L, on chir, 1933, xxx, 721

The cystine content of the finger nails in arthritis M X

Steeling, and W C Hess J Bone & Joint Surg., 1934, X1, 185

Spasmodic torticollis C W RAYD Am J Surg, 1931, XXIII, 184

Backache W B Owr . South M J , 1931, xxvn, 40 Low back pain, with special reference to the articular facets, with the presentation of an operative procedure R. K. GRORMIFY J \m \1 \ss , 1933, ci, 1773

Inatomical changes in the lumbosacral region and sacral pains. H REINBERG and S ZYTKIN Sovet Chir,

1933, 111, 289

Lumbar pain with pathological changes in the lumbosacral vertebræ D Nov vžilov and l' Litipov Vojenno med Ztschr, 1932, 111, 163

Geometrical analysis of scoliotic spines C J Sutro and M M POMERANZ J Bone & Joint Surg, 1934, XVI, 65 Prespondylolisthesis O L MILLER South M & S, 1934, TCV1, 32

Spondylosis deformans and accident C Mar Atschr i orthop Chir , 1933, lx, 16

Hernia of the nucleus pulposus A C MOONEA Brit

J Radiol., 1934, vii, 46
Five cases of familial laminitis M I Loris Chir d

organi di movimento, 1933, xviii, 381 Form fruste of vertebral ostcomyelitis J Decourt

Bull et mem Soc med d hop de Par, 1933, xlix, 1474 Recurring ostcomyelitis of the transverse processes of the fourth lumbar vertebra T LOBEN Muchen med Wchnschr , 1933, n, 1622

bacillus proteus osteomychtis of the spine 8 Setto J. Bone & Joint Sur, 1934, xvi, 159

Potts discuse of the lumber spine, of unusual type with pseus and gluteal abscesses. H. I. C. Wood. Proc. Roy. on Med, Lond 1954, xxxx 222

I chirococci of the vertebral column I Jiana and T Nitry Spitidal 1033, hii, 207

Inherentosis of the spine, a study of 100 cises / B Answer J Bone & Joint Surg., 1934, xvi -00

Heven exes of primary p-oitis in children and idolecents P Incitasis and J Min at Rev d'orthop, 1935, 15 577

The roenthen disposis of abscess of the lumbar spine in tularculous spondylitis V GRIZINSKI Sovet Chir, 10 , 3, 14, 190

Bernan arint cell tumor of the third cervical vertebri, rea ereport. J. A. Machardani and I. A. Linetti. Brit. ] burn 10,1, xx1 113

Grant cell tumor of the vertebral column. M. MEVER key dorthop , 1953, tl, 059

The chology of osteochondritis deformans juvenilis core & MACLIEL Ortoskepzes, 1935, xxiii, 384

Ostcomychtis of the dium C 1 Bypetry Arch Surg 1934, xxvin, 83

Youte ostcomyclitis of the thum G MAGNARY Or

305kep.e- 1933, xxIII, 374 Symptomatology and pathogenesis of acute ostcomy clitiof the ilium R Pazzager Chir d organi di movimento,

1933, 33111, 531 Sacro iliac 'slip ' T I P Goonek Northwest Med.

1031, XXXIII, 20

Scritica and the sicro thac joint. A. H. Frethere and I II VINKI J Bone & Joint Surg , 1954, xvi, 126 [443] Scratic pain, its clinical significance. A. H. I REIBERG Ohio State M. J., 1934, xxx, 21 Hiopectine il bursitis. H. W. Himmi RMANN. Med. Klin.

19,,, 11, 1172

Recurrent sarcoma of the thigh H LDW iros Proc

Roy Soc Med , Lond , 1934, 83811, 224

Histological study of the capsule of the knee joint in various ages and in chronic joint disease. J. Kratz. 1932. Irinkturt a M, Dissertation

I new method of osteotomy for the correction of long standing bony deformity at the knee. A. WHITMAN. J.

Bone & Joint Surg , 1934, xvi, 155 The symptomatology of injuries to the menisci of the knee N Barkov Sovet Chir, 1933, iv, 200

I new sign of injury to the median meniscus of the knee

M Tenakline Rev d'orthop 1933 xl, 603

Iriumitic lesions of the menisci of the knee ind J A Scrosso Rev de ortop y traumatol, 1933, 111, 147

I lexion contracture of the knee with signs of meningeal inflammation R Mariner Policlin, Rome, 1933, xl, sez prat 2003

Chronic synovitis of the knee with persistent or recurring effusion and of undetermined etiology A B Gill and T T ORR J Bone & Joint Surg , 1934, xvi, 159

Ostcochondritis of the patella, including a case with multiple epiphyscal involvement M GLLMN J Bonc & Joint Surg, 1934, xv1, 95

fuberculosis of the knee joint, a comparison of its morbid anatomy with its roentgenological manifestations R K GHORMLLY, B R KIRKLIN, and L A BRAY Am Rocntgenol , 1933, xxx, 747

Tibial dislocation in tuberculosis of the knee, pathogenesis and treatment S MARCONI Chir d organi di movimento, 1933, xviii, 401

The method of extra articular arthrodesis of the knee A DEI MAYF Rev d'orthop, 1933, vl, 665

Os tib al term m M Kovalevskij V t il Ch 93 lk ul ix 68 Og od Schlatte disease B GAVRILEVEG Ort p i Travmat 032 37 Acute f ta t my litt fth th th use fth Win ett O tech q e M G O MALL 3 Brt ] g 934 xx 53 B di bsc J M DE LA P ENTE Cli y lab 933 VIII I 5 VnRcklaugh us scheese nd co ge tal pse da thrss fth fibl Tix∪ex Lyn b⊪r 933 xx 9 Chinic I t dy f I d ; t th p t fth nkl D regulle P méd P p t 934 li O ificati ii in the Achilles te d ii ] \o bmann U theat in in the commerce search of the Lister for the Delta 1 and the Lister for the Lister fo skép és 933 xxui 345 Deca cllati fth scales astrgal a dcb dn
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The effect of a local calcium depot on osteogenesis and healing of fractures J 1 Key J Bore & Joint Surg, 1934, TVI, 176

The effect of the oral administration of maccrated fresh bone in the repair of fractures M DANELLI Policlin,

Rome, 1933, xl, scz chir 722

Cow's horn in internal fixation of fractures E B

FOWLER Illinois M J, 1934, Ixv, 56

Observations on fracture healing in rats. M. K. LIND SAY J Bonc & Joint Surg , 1934, XVI, 162

I racture equipment, with notes on its use H R RISHWORTH Indian M Gaz, 1931, Ixix, 29

Local anysthesia for bone fractures B Perrov Nov chir Arch , 1933, xxviii, 33

An attachment for Hawley fracture table designed to facilitate application of body cases C K PETTER J Bone & Joint Sur, 1934, 381, 211

Unilateral dislocation of the atlas anteriorly, without fracture of the odontoid process R Sommer Chirurg,

1933, 1, 489

Operation for habitual dislocation of the shoulder L Forster Schweiz med Wehnschr, 1933, 11, 941

A case of recurrent posterior dislocation of the scapulohumeral joint A B Arroto Rev de ortop y traumatol [447] 1933, 111, 188

Fractures of the clavicle in infants A B INCLÁN

Cirug ortop 3 traumatol, 1933, 1, 231

Impacted fracture of the neck of the scapula C A HUTCHINSON J Royal Army M Corps, Lond, 1934, lx11, 62

The treatment of fractures of the upper end of the humerus In experimental and clinical study N J How and L LLOESSER. J Bone & Joint Surg , 1934; [447] C L

Tractures of the lower end of the humerus ELINSON and C W McLaughlin, JR Am J Surg,

1934, xxiii, 79

Fracture of the trochlear process of the humerus with intra articular displacement of the fragment, paralysis of the ulnar nerve L ZEVO Bol y trab Soc de cirug de Buenos Aires, 1933, xviii, 1259

Fracture of the trochlear process of the humerus with intra articular position of the fragment and paralysis of the ulnar nerve J Valls and C L OTTOLENGHI Rev

de ortop y traumatol, 1933, 111, 209

Wire extension for upper arm fractures L BAUMANN

Lentralbl f Chir, 1933, p 1466

Supracondylar fracture of the elbow in children, treatment and results R FINOCHIETTO and A LLAMBIAS Semana med, 1933, xl, 1837

The management of fractures of the bones of the forearm O L MILLER. South M & S, 1934, xcvi, 4 End results of fractures of both bones of the forearm

H K Sowles J Bone & Joint Surg , 1934, xvi, 193

Tractures at the lower end of the radius, the rolling pin method for their reduction W A CLARK California & West Med , 1934, vl, 35

Avulsion of the interosseous ligament from the radius W DANN Schwetz med Wchnschr, 1933, 11, 948

Fracture of the ulna, dislocation at the head of the radius D Volynskij Ortop 1 Travmat, 1932, vi,

The treatment of comminuted Colles' fracture in elderly Proland I Med., 1933, patients C E HAGGART New England J Med, 1933, cctx, 1140 [447]

Subtotal retrolunar luxation of the carpus Bilateral lesions P S Toledo Cirug ortop y traumatol, 1933, [448]

Fracture of the os navicular of the wrist A SORKIN Vojenno med Ztschr, 1932, iii, 143

The treatment of fractures of the carpal bones. Late results W KLECHEL Muenchen med Wehnschr, 1933. 11, 1350 [448]I ragmentation chips from the carpal bones M Ennst

and W ROLMMELT Deutsche Zischr f Chir, 1933. cexli, 438

Roentgenological diagnosis of fractures of the scaphoid bone of the hand I School Zentralbl f Chir, 1933. [449] p 1954

I ractures of the ingers and their treatment B Divno-GORSEL and V GLUSCENKO Sovet. Chir, 1933, IV, 214

Traumatic backache P N Jepson J Am M Ass [449] 1933, C1, 1775

The late sequele of vertebril trauma and their treat-ment M B ANSART and J D'H Got Rev de cirug de Barcelona, 1933, III, 1

I simple method of applying a body clist in fractures of the spine J PENN J Bone & Joint Surg , 1934, TVI, 205

The use of a modified hospital bed for treating fractures of the spine R. F. PATTERSON J. Bone & Joint Surg, 1934, 211, 207

The modern treatment of uncomplicated compression fricture of the dorsal and lumbar vertebrae T Telsen-REICH Arch f klin Chir, 1933, clxxvi, 123

The treatment of fractures and fracture dislocations of the spine R W Jones J Bone & Joint Surg., 1934.

Wire extension of the sacrum, indications and technique H NIESEN Monatsschr f Unfallheilk, 1933, vl. 292
Congenital dislocation of the hip J A FRIBERG J

Am M Ass, 1934, cu, 89 Spontaneous dislocation of the hip in childhood P N

RAY Brit J Surg , 1934, VI, 523
The prognosis of closed reduction of congenital dislocation of the hip H Hildenreinle Ztschr f orthop Chir, 1933, lx, 44

Traumatic injuries of the hip Occurrence, treatment, and end results on the basis of institutional material during a period of ten years. K. Niederecker. Arch f. orthop Chir, 1933, xxuii, 567 [450]

Intracapsular hip fracture I J Cotton J Bone &

Joint Surg , 1934, xvi, 105

Intracapsular fractures of the hip, a new device for lateral osteosynthesis M O HENRY J Bone & Joint Surg , 1934, xvi, 168

Fracture of the lower extremities P KONDRATIJEV

Vojenno-med Ztschr, 1932, 111, 137

Lnd-to end reduction in fractures of the lower extremity R Anderson West J Surg, Obst & Gynec, 1933, xlı, 671

The mechanics and reduction of displaced upper femoral cpiphysis J D Adams New England J Med, 1934 ccv, 178

The treatment of central dislocation of the head of the femur with traction of the major trochanter O WINTER-

STEIN Zentralbl f Chr , 1933, p 1710 A study of the fracture of Monteggia A LAMBOTTE

Rev de ortop y traumatol, 1933, in, 139

The treatment of fractures of the neck of the femur M KRABBEL and T HUDEPOHL Arch f orthop Chir. 1933, AXXIII, 470

A new treatment of intracapsular fractures of the neck of the femur and Legg-Calve-Perthes disease Technique J Bozsan J Bone & Joint Surg, 1934, xvi, 75

Recent intracapsular fractures of the neck of the femur, a critical consideration of their treatment and a description of a new technique T KING Med J Australia,

1934, 1, 5
Witing of pertrochanteric fractures of the femur F M CADENAT J de chir 1934, xliu, 1

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Thrombo angutis obliterans of patients with diabetes B T HORTON and T N ALLAN Ann Int Med, 1934,

vii, 799
Sympathetic ganghonectomy for gangrene due to Sympathetic ganghonectomy for gangrene Brit M J, thrombo angutis obliterans H H STEWART Brit M J,

1934, 1, 100
Endarteritis obliterans, with unusual eye involvement
A O Pringst J Med , Cincinnati, 1934, xiv, 566
The errors and dangers in the current of the blood The errors and dangers in the surgery of the blood 1934, 1, 100 vessels I Grekov Vestnik Chir, 1933, kyyvii/laxxix, 18

Blood, Transfusion The survival of blood G Kovtunovič Sovet vrač [453]

Acute hæmolytic anæmia, death after transfusion R V PANE Guy's Hosp Rep , Lond , 1934, Exxiv, 65 Gaz, 1933, 1/11, 21

Procedures for the treatment of myelogenous leukæmia U V PORTMANN J Am M Ass, 1934, Cu, 178 Blood transfusion F A Hudson and C E CARY J

The adjustment of the blood volume after transfusion Oklahoma State M Ass, 1934, XVII, 15

A E BOYCOTT and C L OAKLEY J Path & Bacteriol 1934, XXXVIII, 91
Transfusion with cadaver blood I TIEHOMIROV and
P ONISIMOV Sovet Chir, 1933, III, 297
The cadaver blood I TIEHOMIROV and I T

The possibility of preventing malarial infection by

blood transfusion A study of the bactericidal effect of

reserve blood on the malarial plasmodia V ACKERMANN reserve 61000 on the maintai plasmoula v Tokeksian v and A Filatov Verhandl d Wiss Konf d Forsch-Inst and A FILATOV vernauci a April, 1933 f Blut transfusion, Leningrad, April, 1933 Accidents in blood transfusion Zentralbl f Chir, 1933, p 562

# Lymph Glands and Lymphatic Vessels

Biological tamponade for injury of the thoracic duct Chincal and pathological differentiation of the acute G GUREVIC Sovet chir, 1933, IV, 113 leukæmias, with special reference to acute monocytic leukæmias, C C FORKNER Arch Int Med, 1934,

A case of acute lymphatic leukæmia with leukæmia A case of acute lymphatic leukæmia Med J Australia, cutis and leucimides T J F FRANK Med J Australia,

A case of chronic myelocytic leukæmia in which splenec-1934, 1, 126

tomy had been performed P R WHEATLEY

Some cases of tuberculous polyadenopathy, transitions Hosp Rep, Lond, 1934, lxxxiv, 77 MARCHAL, BRUN, LEMOINE, and BLOCH-MICHEL Bull et mem Soc med d hop de

A case of aleukæmic lymphadenosis G FABRI Policlin, Par, 1933, xlix, 1490

Lymphadenoma associated with (a) hypertrophic pulmonary osteo arthropathy and (b) herpes zoster W E Rome, 1933, vl, sez prat 2006 LIOYD Proc Roy Soc Med, Lond, 1934, XXVII, 224

# SURGICAL TECHNIQUE

## Operative Surgery and Technique, Postoperative Treatment

A report of four foreign-body cases with endoscopic removal W K SLACK J Michigan State M Soc, 1934,

Plastic operations on the face and breast H F O HABERLAND Zentralbl f Chir, 1933, P 746

Esthetic surgery C MALBEC Semana med, 1934, xli, <sub>XXXIII</sub>, 10

Skin graft A Zamkov Sovet Chir, 1933, 1v, 51 The administration of chlorides to operative patients METINET Bull et mem Soc nat de chir, 1933, lix, 1457
Continuous intravenous saline solution
I N Carrow Ret M I 1997

J M CARNOW Brit M J, 1934, 1, 11 Operations in suprarenal anæmia

The cause of death of patients with organic heart disease Zentralbl f Chir, 1933, P 1225 subjected to surgical operation W K PURKS Ann Int

The present conception of surgical shock G W Hawk and R T SHARER Guthrie Clin Bull, Sayre, Pennsyl-Med, 1934, vii, 885

The significance of postoperative quantitative changes in the blood fat T PROCHNOW and L FINDEISEN Orvosvania, 1934, 111, 89

Postoperative changes in the serum proteins kepzes, 1933, xxiii, 259

ZOLTAN Orvoskepzes, 1933, viii, 317

The problem of thrombosis and embolism E MELZNER

The prophylans of postoperative thrombosis

CISCANIENGER Wien med W.chnschr, 1933, 11, 1018 Klin Wchnschr, 1933, II, 1121 Pulmonary complications following anæsthesia
LEMIN J Michigan State M Soc, 1934, XXXII, 18
The Topoton discrete following anæsthesia

The roentgen diagnosis of atelectasis, with special reference to the ground glass shadow and the degree of

pulmonary shrinkage C M Van Allen, W A LaField, and P S Ross Radiology, 1934, XXII, 27 [455]

Massive collapse of the lung, discussion of personal cases C1LONGE RUIZ and GONZALEZ GIL Arch de med cirug y especial, 1933, xiv, 1380

# Antiseptic Surgery, Treatment of Wounds

Traumatology L Zeno Rev med d Rosario, 1933, Street accidents in children and youths A GUTKIN <sub>XXIII</sub>, 1027

Wounds of the hand with an indelible pencil L Michon Sovet vrac Gaz, 1933, vin, 301

Arachnoidism or spider bites N O EADDY J South Lyon chur, 1933, XXX, 729

The treatment of wounds with the quartz lamp K Carolina M Ass, 1934, xxx, 9

The treatment of wounds with artificial light K F MARKUSE Sovet Chir, 1933, IV, 40 POLLACZEK Arch f klin Chir, 1933, ckxv, 696

The treatment of injuries with ultraviolet light LARIN and L GOLONZKO Sovet Chir, 1933, IV, 44

The treatment of the Chinese wounded at a base hospital

The Device Chine of D West Chinese To Nov. At D. II.

in Peiping, China M D WILLCUTTS U S Nav M Bull,

1934, XXII, 8
Simplified dressing for clean surgical wounds B I GOLDEN Am J Surg, 1934, XXIII, 194
The clinical significance and prognostic value of agranu-

locytosis in infections G RUBINATO Policlin, Rome,

Infection and Vitamin A in man R Debre and A Busson Bull et mem Soc med d hop de Par, 1933, 1934, vli, sez prat 7

The treatment of sterile, contaminated, and infected wounds E D Newell South M J, 1934, xxvii, 53

Bacte tophag in surgery Borotanu Stolan and Costesco Bull, tuem Soc. nat. de chir 1933 his 1966

So gical maggots in the treatment I initiated wounds cent one at search. Which would not S whom I had & Clin Ved 1934 113 330

Tetanus pr phylazis. Zischr f a rath Forthild 933

The p sent treatment of tetanus. E. L. Pryrk.

Pr see med Par 193 kb 1982
Fetanus c red by magn sum sulphate R. A. How.

Indian M Gaz. 1914 knr 20

A case of leclared t tanus treated by sodium amytal II 9 MEADE IRIS I W Sc 1934 No 97 17 S dden weath mmediately after the injection of anti-tanus serum P Haroouth Bull et mem Soc, nat de the control of the control o

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The roentgenological diagnosis of intracardiac calcifications P A BISHOP and H ROESLER Am J Roentgenol,

1934, xxxi, I Hepatohenography LARRU Med Ibera, 1933, xvii,

Changes in electric potentials and rates of oxidation of M M D the skin subsequent to roentgen irradiation M M D WILLIAMS and C SHEARD Radiology, 1934, XXII, 41

WILLIAMS and C SHEARD RADIOLOGY, 1934, AM, 41 The roentgen therapy of inflammatory lesions in region of the face S DELLING 1933 Leipzig, Dissertation of the face S DELLING 1933 Leipzig, Dissertation

Direct roentgen irradiation of intracavitary neoplasms W R STECHER and T P LOUGHERY Am J Roentgenol,

The treatment of X-ray carcinoma and X-ray dermatitis 1934, \*\*\*1, 64

Roentgen therapy of surgical diseases O Kingreen W S HANDLEY Lancet, 1934, CCXXVI, 120

Therap d Gegenw, 1933, lxviv, 350

Comparative researches on the action of radium and the Comparative researches on the action of the rooting rooting rays H HOLTHUSEN Strahlentherapie, 1933, [459] The influence of the antiquity of the cell upon cell resistance to radium and X-rays R H MILLWEE Radiol-

The nature and effect of radium treatment in gynecology PFEIFFER-MEISSNER 1933 Oberschlema, Kramer ogy, 1934, XIII, 74

Heat production in diathermy treatments A Hemng-WAY Radiology, 1934, XXII, 84
Studies of children born of irradiated mothers E MAURER Strahlentherapie, 1932, rlv, 691

Rdsch, 1932, 1, 50, 53

# MISCELLANEOUS

# Clinical Entities—General Physiological

A case of congenital deformity of the upper extremity N KOVALENKO Ortop 1 Traymat , 1932, VI, 68 Refleres in amyotomia congenita (Oppenheim), report of a case with signs of involvement of the pyramidal tract or a case with signs of involvement of the pyramidal tract

I Brackian Arch Neurol & Psychiat, 1934, XXI, 161

Experimental study of the development of traumatic Experimental study of the development of training shock R HERBST Arch f klin Chir, 1933, ckxxvi, 98 A study of the physiopathology of shock, the sensitivity to adrenalin in different types of hypotension r to autenant in unevent types of appotentiation.

ALSINA Rev de cirug de Barcelona, 1933, iii, 44

Clinical control of chronic hæmorrhagic states in childhood I N KUGELMASS J Am M ASS, 1934, CII, 204 Myasthenia gravis Fourth report the onset and course the disease W M BOOTHBY J Am M Ass, 1934,

cn, 259
The occurrence of free hyaline bodies in the serous
The occurrence of free Muenchen med Wchnschr, cavities G B Schmidt Muenchen med Wchnschr,

Erysipelas septicodermatitis in lupus A SyreNSAAJA Sovet Vestn Venerol 1 Dermatol, 1932, 1, 15 Eryspelas of the skin and mucous membrane of the 1933, 1, 410 bowel simulating dysentery, treated and cured with polyvalent streptococcus serum C Popescu and G PANNITESCU Rev stint med, 1933, XXII, 300

A case of primary tuberculosis of the skin D Giorga-The biological diagnosis of hydatid cyst De Lara y COPULO Clin chir, 1933, 1x, 1060 ROLDIN Arch de med, cirug y especial, 1933, xiv, 1419

The importance of permeability of the tissues in the mechanism of local immunity to the stanhvlococcus

mechanism of local immunity to the staphylococcus

E CIRRAVEI Sperimentale, 1933, IXXXVII, 063

Streptococcal bacterium, with particular reference to
focal infection. E Correct Policies Rome 1022 ri

focal infection F CORELLI Policin, Rome, 1933, xl, Gonococcal septicæmia cured by autohæmotherapy
A M ZELASCO, N BAKMAS, and J M PASTORIZA Semana
Mid 1922 Al 2027 sez prat 1960

The general and pathogenic prognosis of traumatic syphilis R Berning Bruxelles m.d., 1933, xiv, 236
The significance of so called pathological granulation of the white cells T Prochnow Orvoskepzes, 1933, xiii, med, 1933, xl, 2025

Lipogranulomatosis, or Hand's disease I GOLDIN Nov chir Arch , 1933, TVII, 459

Agranulocytosis (pernicious leukopænia) including a report and history of a primary case D W SCANLAN J Aled Soc New Jersey, 1934, XXII, 17
Diffuse interstitial calcinosis, report of a case with a review of the literature T SCHOLZ Radiology, 1934,

Nævus flammeus nuchæ, its occurrence and abnormal-nævus flammeus nuchæ, its occurrence and abnormal-ities E F CORSON Am J M Sc, 1934, clxxxvii, 121 Two cases of keloid formation, with comments C E L

BURMAN Brit J Surg, 1934, XXI, 527

Traumatic epithelial cysts of the skin

N R CARO T Am N Acc TOXA CV TOX

The development of so-called caries in teeth in dermoid cysts of the ovaries D Tittel Vischr Zahnheilk, 1933;

The chemical analysis of new growths correlated with their pathological examination W R Mankin and A M

The influence of pregnancy on experimental tumor WELSH Med J Australia, 1933, 11, 718 growth in the white rat, volumetric studies on adeno-fibroma and fibroma L A EMGE and L M R WULFF

West J Surg, Obst & Gynec, 1934, Jin, 45 A study of spontaneous tumors of the mouse by the tissue culture method M R Lewis and L C STRONG

A comparison of the action of some polycystic aromatic A comparison of the action of some polycystic aromatic hydrocarbons in producing tumors of connective tissue G Barry and J W Cook Am J Cancer, 1934, tx, 58

The question of experimental tomato tumors O Schuerch and M Zehnder Muenchen med Wchnschr, A case report of an uncommon type of lipoma L

1933, 11, 1395

A case report of an uncommon type of lipoma L

Tomisi Ann ital dichir, 1933, vii, 985

Granuloma coccidiodes C C Tomisiso and P

Bancroff J Am M Ass, 1934, cii, 36

Epithelial tumors of the skin R L

Viscouri State V Ass, 1934, xxxi. 28

A study of the relationship of internal secretions to the Missouri State M Ass, 1934, TXXI, 28

metabolism of malignant tumor tissue O O Meyer and

metadonism of manghant cumor ussue O O MESTER and C McTternan Am J Cancer, 1934, Xx, 96
Primary malignant tumors of the foot a report of thirtyseven cases B I Schreiner and W H Wehr Radi-

ology, 1933, VI 513
The cancer problem
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# International Abstract of Surgery

Supplementary to

# Surgery, Gynecology and Obstetrics

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Editorial Communications Should Be Sent to Franklin H Martin, Editor, 54 East Erie St., Chicago Editorial and Business Offices. 54 East Erie St., Chicago, Illinois, U.S A In Great Britain 8 Henrietta St., Covent Garden, London, W. C. 2

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# INTERNATIONAL ABSTRACT OF SURGERY

JUNE, 1934

## ABSTRACTS OF CURRENT LITERATURE

### SURGERY OF THE HEAD AND NECK

### HEAD

Gallavresi, L. The Roentgenological Study of Changes in the l'emporomandibular Articular Interline (Studio radiologico di alterazioni dell' interlinca articolare temporo-mascellare) Radiol med , 1934, MI, 35

The author believes that in the roentgenological study of the temporomandibular region it is best to use both Koehler's position and a sagittal projection through the articular interline. He discusses the technique of these projections, shows them by roentgenograms, and cites clinical cases showing their value in clearing up the diagnosis of obscure lesions of the pharyny, head, and sinuses

EUGENE I LEDDY, M D

### EYE

Duggan, W F Visual Results in Cases of Intra-Ocular Foreign Body, A Study of 270 Cases Arch Oplith, 1933, x, 768

In 1932 Kiehle stated that of most importance in every case of intra-ocular foreign body are the degree of vision retained and the length of time the foreign body was present in the eye. He said that an estimate of vision six months after the injury is not significant, that light perception or vision of fingers at a few feet is nothing of which to boast, and that the longer the period of time elapsing after removal of the foreign body, the greater the diminution of vision. He concluded that the final estimate of disability should be delayed at least two years, and that the patient should be re-cramined periodically

Duggan reports the visual results in 270 cases of intra-ocular foreign body from the private practice of Arnold Knapp previous to 1920 and the Herman Knapp Memorial Eye Hospital, New York, in the period from January, 1920 to December, 1931, inclusive One year was taken as the minimum following period of the definitive series, because if two years had been chosen the number of available

cases would have been reduced by 50 per cent Iwo hundred and sixty-one of the patients were makes. The extreme limits of time during which the foreign body was in the eye before removal were two hours and twenty years. In the discussion the cases are

divided into 8 groups as follows

Group r Cases in which the patient was followed up less than one year after the removal of the foreign body In this group there were 175 cases in which the patient was followed up for from one week to ten and a half months However, when the foreign body had remained in the eye for more than four months it had probably caused sufficient degeneration to render the true visual results unobtainable. In 16 cases the foreign body had been in the eye for from four months to twenty years Of these, vision was less than 20/200 in 62 5 per cent, 20/200 in 12 5 per cent, 20/20 in 18 per cent, and unrecorded in 6 3 per cent In the 159 other cases there were 38 enucleations Of the remaining 121 cases, vision was lost in 9 1 per cent, less than 20/200 in 23 1 per cent, from 20/200 to 20/50 in 14 9 per cent, from 20/40 to 20/30 in 19 per cent, 20/20 in 19 per cent, and not recorded in 14 9 per cent The complications included cataract in 18 cases, aphacia in 27, secondary membrane in 5, detachment of the retina in 8, vitreous exudate in 16, siderosis in 1, a scleral wound in 23, and phthisis in 8

Group 2 Cases in which the patient was followed up for one year or longer after removal of the foreign body. In this group there were 53 cases. In 10, the foreign body was in the eye for more than four months. In 8 of these 10, vision was less than 20/200, in 1 it was 20/70, and in 1 it was not recorded. Complications included cataract in 2, detachment of the retina in 4, vitreous evudate in 1, and siderosis in 6. Of the remaining 43 cases in this group, vision was lost in 2 4 per cent, less than 20/200 in 28 6 per cent, from 20/200 to 20/100 in 9 5 per cent, from 20/70 to 20/50 in 7 i per cent, 20/40 in 7 i per cent, 20/30 in 16 7 per cent, and 20/20 in 28 6 per cent. The complications included cataract

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the np le c mert surface is in ol ed. It is clar the while circuit surface is in olicil it is clar acte into that a narrow Key line for the line thanks and all the frogress of the light of the man I addresse enough and the light of the man I addresse enough and the light of the man I addresse enough and the light of the man I addresse enough and the light of the man I addresse enough and the light of the man I addresse enough and the light of the man I addressed the man mich changes nun jahy iin the progress tite lases marks off the brider f the un n jed cries that so the last hel althy cries that it is considered. c mea 10 s 1 le 1 tre came le 1 as the disbornou of the c tues son a new result indee by cit ca cu port on so that t at 3/8 and under sit cir unusances appears to be unuernine 1. White the unu of old c mea ire of easts from a arence to the last moment. He de 1 im. t. f. a. d. see supert. All said moment is declared in a contract of a condensity of cond tast moment the up 1 m t ta the superior in in notwork of seels begins on the la seed port in in

network of sees neg us and the rapid f rmation f spice of the great p in any the raph ( ) matton new essels I ha en er seen l pel von cont \* essets 1 n3 en er seen i pellon ceur i ther d es perl tat on occur spontan u ly In the lanning in the test of in the total first the limbus and the feetof rma shallow introw in a manner milar to the firmating snauow turrow in a mannt miar to the 1 mar in of mark had ulcer. The there is a stoward the mark had ulcer as to the mark had ulcer. The theorem is the mark to the mark had been as the mark had been stending also at noth ends to urr und the multaneously hains occurs at the perithery with the formation of new results for a perijnery a ir ine io mation of n w csus of be

person is a sor weeks feating my y praint of complete betatherend fillst time the afficiation compliental incend that the may be not extra not farther centrall. Cor in a may be not ext nots farther centrall Cu in 1 n may be only m I rate with 1 the or n irrits When east not m I rate with 1 the or n a just be come he for not be proposed to the corn a just be come he can not be proposed to the corn as your proposed to the corn of the cor we are it tump the corn a just beyond the first of border shows the of cites and below the continuent a trace infiltrat a trace industries conjunct a those

The limbus is often raised in a red ring around the diseased area marked swelling and inflammation This zone of scleritis and epischeritis may early suggest sclerosing keratitis, but in the latter condition gest scierosing Actauties, out in the factor confidence ulceration of the corned occurs rarely if ever the confidence occurs are the confidence occurs and the confidence occurs are the confidence occurs. Mooren's ulcer usually requires from three to six mooren's uicer usuany requires from times to six months to cover the cornea months to cover the corner the instruction, chiefly with ture is that of a chronic infiltration, chiefly with round cells, of the anterior third or two-thirds of the round cens, or the ancertor chine of those in the cornea. The loss of substance usually occurs in the anterior third, and there is replacement by a thin layer of vascular connective tissue except near the advancing border, where the infiltration extends auvancing voices, where the immeration of the under the epithelium and into the stroma of the previously uninvolved cornea Granulation tissue is present over the sclera beyond the limbus, and there may be loss of substance in the sclera itself The condition has been ascribed to (1) the pres-

ence of an infectious agent, (2) a general state of malnutrition, and (3) a trophic disturbance due to manutrition, and (3) a troping distance due to disease of the fifth nerve However, there is no conclusive support for any of these theories prognosis has been considered almost hopeless

The treatments reported have included the use of foreign protein, cod-liver oil, phototherapy, and cauterization Krassó reported five cases thought to be abortive forms of Mooren's ulcer in which rapid healing occurred under treatment with Bucky's neaning occurred under treatment with bucky's border rays (Grenzstrahlen), but Gifford believes that they were not true cases of Mooren's ulcer Attempts to produce hypotony have been rarely

reported Fuchs reported two cases with successful results, one in which a small incision was made in the advancing border and re-opened five times in fourteen days, and another in which peripheral paracentesis was performed fifteen times. In the first case vision of 5/8 was obtained, while in the second vision was limited to the counting of fingers Wibo employed puncture with the actual cautery successfully In three cases Nechtch obtained successful results by the use of the cautery to produce The fistula remained patent fourteen a fistula

days

The use of a conjunctival flap has been tried, but

The use of a conjunctival flap has been tried, but has often failed Kreiker attributes the failures to the use of a too-small flap, retraction of which again exposes the advancing border of the ulcer He has reported three cases in which the ulcer was successfully treated with a corneal flap from above which was large enough to cover the cornea completely After two or three months a small opening was made in the conjunctiva over the unaffected cornea The flap then retracted, exposing all of the unaffected

cornea There was no recurrence In one case vision was 1/4, but in the two others it was less because of the late stage at which the operation was performed Gifford reports three cases in which healing of the ulcer was effected with good visual results In two, a delimiting keratotomy was done, and in one a con-Junctival flap was used The keratotomy consisted of an incision 4 mm long, just central to the advancing border The wound was kept open for ten days

In the two cases in which this operation was done vision was 20/50 and 20/30 respectively Vision was 20130 and 20130 respectively an end latter case there was at first a corneal astigmatism of 7 diopters, but this disappeared in two months In the third case preliminary treatment, with trichloractic acid and phototherapy seemed to arrest chioractic acid and photocherapy seemed to arrest the ulcer for a week, but at the end of that time the lesion became active again. It was then thoroughly touched with trichloracetic acid and a conjunctival the covering the ulcer and a good margin beyond, hap covering the entire cornea, was turned down Vision with astigmatic correction was 20/40 after vision with assignment correction was 20/40 after three months So far, the flap has not been disturbed

Delimiting keratotomy is a safe procedure and less disfiguring than the use of a flap If a flap is conployed, it should cover the whole corner or extend vell past the advancing border of the corneal ulcer, wen past the advancing portoet of the ulcer by the and should be made adherent to the ulcer by the and should be made adherent to the differ by the application of trichloracetic acid. The effect of delimiting keratotomy seems to be due to the increased nutrition and supply of antibodies resulting from a reduction of tension, and perhaps also to the epithelial barrier formed at the site of incision, an effect which is of value whether the disease is in-

The Pathology of Tuberculosis of fectious or degenerative suchness, J. Luc Fathology of Labercands the Anterior Usea. Arch Ophilis, 1934, 71, 119 Igersheimer, J

The principal histological proof of tuberculous infection is the presence of the epithelioid tubercle This occurs most frequently in the uvea difference in reaction to invasion of the tubercle bacillus would be of great importance if it were possible to demonstrate the presence of the bacilli in all The reaction is of three main types (1) acute and subacute, (2) chronic and recurrent, and (3) special types
The acute and subacute reaction occurs in persons tissues

under twenty years of age, affecting one eye for weeks or months The anterior and posterior chambers are usually involved, but not the cornea, choroid, or retina Epithelioid giant cells and lymphocytes predominate Hypopyon, cascation, and perforation occur, and tubercle bacilli are fre-

The chronic types of reaction occur in adults and involve both eyes Epithelioid cells are not found regularly, and caseation and perforation are rare quently found Other tissues of the eye are involved. The tubercle

The special types are rare. In some cases the necrotic process is widespread, while in others a bacıllı are seldom found generalized sclerosing tuberculous large-cell hypergeneralized scierosing cuberculous large-ten hyper-plasia in the eyes, bones, skin, lungs, and lymphatic

Retinal Detachment Am J Ophili, glands occurs Walker, C B

Diathermy has come to be one of the most widely

used methods of treating retinal detachment although the older Gonin and Lindner-Guist methods st il have their place and in some cases a combinati a I mell ods may be indicated All cropuncture yields the highest a erage of successful results with the the figures a grage of autocessing results with the unfavorable sequelar than any other method as yet and or ted Acry small stop sare necessary on microau or teu very small stop sare necessary on mucro-i ns to keef the rins from Sung too deep but in the 2 jt aratus used by the author it is n t nece sary f r all aractos used by the author to is it is necessary if With the use of the author's microfins o erdosin him the use of the author's increding of crossing loss in a occur and the selecta tectal es a small desired of trainment (Larsson effect) which winens the of it atment traceson energy makes bett rand more pr longed drainage 18 erd sing n y route more or songed dramage to call and a second who the cuttent must be used to full out insulated wh is the criteris must be used to Jun our manufactor tins e pecuany minimise types—singue non nonmarco remund are to be freferred. The use fithe latter removable to occircion on the use the rein an noop tracted test tache line can be list eq

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ter oration f om claning or sterl cate of heports of i as of m cr lins without threads at Activity of the breaking of insult tonic liars dur-tached and of the breaking of insult tonic liars dur-ing use are numerous. When the count fails to the orbit or on the toor any examinat n ma be the oron or on the total cay examinat in the necessary (on tantly threaded in dim platinum mi rogins ha e leen found safe and satisfactory WILLIAM A. V. VN. Jr. VI.D.

ition of Spot taneous 1 re

## 4 ch ()phil

Lindner states that the cause of retinal deta h ment is a retinal tear and this can be tro ed by mechan cal means 1 mod 1 retina c n be on mechan car means the intent of a rountiel sailast structed by coat ug me mices ( 14 tours g) as in with a layer of c !! d n cont ming en ug! minum powder to renderst m. re suble and s me what minum powers to tenuer it in the transcention and erent. If an art i cial hole with a protroit, 8 ft p auterence at an articles note with a processor for person at the same and the flask rot ted d t ch is made in this se or and the mass not red of the flash ment soon occurs. When the m ti n f the flash ment soon occurs when the m to hatten ut ceases the detachment tend to flatten ut ceases the decarament tend to matter ut this penciple has been utilized in the ceb th use of principle has a en utilized in the e e brate e e Lochbrille or hole spectacles which brate e e to mo ements to these brate est mo ements to the e e e th tract on of the soli i treous n tien ghborhood of tract un ut the sout i threons at the in Suppriment of the detachment which causes the retina to buckle so the detacument will causes if e retina to outlie so that it will not r turn to the no mal po t n on mar it was not a corn to the no man par in retinal unmuumization ine author det es that in retinal detachment there is a re er et st, am of ntra occurrences energing a received and or nitration ocular fluit no long from the chor d back through

the ret nal b | absorbed by th, cho od and After this has occ red the use of Lochbrille will e entu liv causing I quefaction After this 143 oct feet the use of the detachment cause a definite flattening of the detachment

If el tereation of detachment requires prevention of the retinal tear. I redispost n to detachment occurs in the groundits, myopia and sending. In these occurs in a secondaris, myopia and sensiny in unese conditi in a there is either detachment of the retina or

i sacti not the streons. In an attempt to pre ent the form to not a hole and access to the cut the found the ele may be

unit souse ment retiral detachment the eye may be interruption of the nerves of the ocular i auterruption of the nerves of the ocular muscles. This invedure would have a lasting and complete effect but because of complications such

comficte effect but because it complicate as such as the production of I louis and parallysis [ the as the production of 1 tosts and paratisms a the sphin ter of the pupil and the citiary muscle it is not advisable
2 I cision of p eves of the muse e perf rmed in
two satt nex. This will be a ghilly less effects e

and while objected to by most pat ents. It might and w the seconfected to by most par ents. It is got be recommended in certain cases of inoperable m nocular detach ment

I I ducat in and re triction of ocular mo e 3 Luucat n and re inclon of ocular mo e ments by fitcal mears. This method is sampler and re estimated ry Classes with six n penpheral on re satisfact ry Chasses with sir in perspectation and be preserved. In myopia for error about the many be preserved. They have a lambtal lenses may be prescribed. They d piers I initial lenses may be prescribed a piers a constant acases may be presented as a should be inserted in the frames with the surface

re erscul
4. The use of Lochbrille with the poter r
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use is resourant to train the third method.

Lindner has ne er performed a pr phylactic and the phylactic performance of the phylactic performance in the performance of the performance oberation or toer rea toat it may some may one

pland C D Retl 1 Detachm at and Its Stapland C D 425 Cases. Brill J Ophia 934 x u 1

Of 425 cases I ample reunal detachment seen at the Royal Lund n Ophthalmit Hospital in the ent royal Long ii Ophthalinin 21039 ias in c per od between December 25 10 0 and January per on netween precedurer 37, 10, 9, and January rethod f Gunn 9b the Lindare Gu t multiple trephang i pe of persuon and 1b the date then method of L resu measure was emply sed. The pat onls ranged a age from eight t e Sht two years Their a erace St was fort) two and eight t nits years. Two hard set as and surty were males. Sixty tw. and three tenus. per cent of the d tachments occurred in my opes 2 9 per cent f whom had m pha of o er rod per cent i whom had in the per cent of the deters surery one and one tentus let the state of the tachments occurred in emmetr pes and 66 per cent tachments occurred in emmetr pes and 66 per cent sacuments occurred in emmetr pes and 0 0 per cent in aphacic e es In 6 cases the detachment was Trauma played a role in 43 o per cent of ( internal arauma pia) ed a roie in 43 9 per cent tle detachment nemmetropes and in 15 5 per cent

One or more h les in the retina were found in 6.1 f th se occurring in m opes one or more u ses in one reuna were sound in the per cent of th se they per cent if the cases. In 00 4 per cent of th se they were afr at of the equal rand in 23 8 per cent uses into were a rr at or the equat rand in 23 sper cent lue; we e multiple. The e were 115 examples of round holes, 113 cases of disinsertion or anterior retinal dialysis, 105 arrow-head tears, 20 radial shit-like tears, and 19 irregular rents. The temporal half of the globe was the most common site of tears, 79 6

per cent of the tears being in that region

Of the 221 patients operated upon by the Gonin method, 27 6 per cent were cured and 10 4 per cent were benefited Of the cases in which the detachment had been present for less than six weeks, a cure was obtained in 40 per cent, whereas of those in which it had been present longer than six months a cure was obtained in only 10 per cent. In 62 3 per cent of the cases with a successful result, I ignipuncture was sufficient In 4 9 per cent, 3 punctures, and in 16 per cent, 4 punctures were necessary Complications associated with this method included secondary rents, vitreous hæmorrhage, traumatic cataract, and transient uveitis. The technique of Gonin was followed except that after the first six months the galvanocautery was used instead of the Paquelin cautery as the latter was found unreliable

Of the 79 patients operated on by the Lindner-Guist method of multiple trephining with a 15-mm trephine and the use of potassium hydroxide, 253 per cent were cured and 152 per cent were benefited. In 7 cases completion of the operation was prevented by early perforation of the choroid. Subtraction of these cases and of a few which vere operated on by a modified procedure raises the incidence of cure to 317 per cent. Complications included secondary rents, vitreous hæmorrhage, uveits, vortex vein thrombosis, and subretinal

hæmorrhage

The diathermy method advocated by Larsson includes superficial treatment of the sclera over the affected area and subsequent perforation of the sclera over the tear with the electrode or by means of a trephine opening. Of the 72 cases treated by this method, a cure was obtained in 47 2 per cent and improvement in 13 9 per cent. Except for a few secondary holes, complications were rare. The higher incidence of cure in the cases treated by the Larsson method of diathermy, the ease with which the method can be carried out, and the lower incidence of complications indicate that the Larsson method is the most satisfactory procedure for the treatment of detachment of the retina.

WILLIAM A MANN, JR, M D

Pischel, D K Detachment of the Retina, Its Present Operative Treatment 1m J Ophth, 1933, xvi, 1091

Pischel discusses various types of operation for retinal detachment and reports the results of the Safar operation on fifteen eyes He emphasizes the importance of exact localization of the retinal tear

The Gonin operation, which aims at direct closure of the retinal tear, requires only a simple armamentarium and is easily and quickly performed, but demands especially accurate localization of the tear Other disadvantages of this procedure are burning of the retina, extensive scarring and sec-

ondary contracture with the formation of new holes, the sudden egress of subretinal fluid through one large opening, and the difficulty of using the procedure in cases with large holes or multiple tears

In the Lindner-Guist operation, which aims at walling off the tear, the localization is easier, there is a possibility of including several holes in a single circle of exudate, and thorough drainage by many openings permits the retina to float back into the proper place. The disadvantages of the procedure are the very difficult technique which prolongs the operation, the difficulty of reaching back to the posterior pole, and the possibility of intra-ocular hamorrhage.

The Safar operation, which is also a walling-off procedure, has all of the advantages of the Lindner-Guist operation. In this procedure the retina is kept away from the choroid throughout the operation by unescaped subretinal fluid, being thus well protected from trauma, there is no possibility of intra-ocular hæmorrhage as the vessels are thrombosed, and all

parts of the eyeball are readily reached

The Larsson operation requires no localization beyond a rough estimate and permits treatment of detachments in which no hole is found. The technique is simple. The disadvantages of the procedure are the single trephine hole for drainage, extensive destruction of the choroid and retina, extensive treatment of the sclera, and the uncertain transscleral dosage.

The cases reported included eight with an extremely unfavorable prognosis. In one of the latter the result was favorable, but in others the treatment failed. Of the seven favorable cases operated upon by the Safar method, a cure resulted in four. In a fifth, the operation caused re-attachment of the separation retina, but a new separation occurred in another part of the eye. Exact localization was accomplished with the aid of the perimeter. Following the operation both eyes were bandaged for from eight to ten days, and after removal of the bandage stenopeic spectacles were worn for about three months.

WILLIAM A MANN, JR, MD

Caeiro, J. A., Malbran, J., and Balza, J. The Treatment of Retinitis Pigmentosa by Resection of the Cervicothoracic Sympathetic (Tratamento de la retinitis pigmentana por la reseccion del simpático cérvico-toracico) Rev Asoc med argent, 1933, xlvii, 3403

The authors report five advanced cases of retinitis pigmentosa which they treated by extirpation of the middle and intermediate cervical ganglia and the stellate ganglion and resection of the vertebral nerve. The first to resect the cervical sympathetic in retinitis pigmentosa was Royle. The only other similar attempts in this direction known to the authors are those of Meighan (one case) and Campbell. Royle resected the sympathetic trunk at the level of the second cervical ganglion in five cases. Meighan extirpated the superior and middle ganglia. Both surgeons reported striking improvement in the

acuity of vision and enlargement of the visual fields acuity of vision and emargement of the internal. The authors regard s) mpathectomy of the internal The authors regard sympathectomy of the result no carotid pleans as dangerous because of the result no 494

de gap ug of the palpebral fissure and the perma oe gap ng of the paipeural ussure and the perma nent marked mydrasis. They believe that their nent marked my driasis and peneve that their method great he best clinical results by suppressing memon gress the observations and suppressing (probably), all of the na lateral sympathetic inner

ation of the eye The general effects — ere limited to precordial pain and slight fleeting pains radiating to the shoulder and sugar necessity passes reachose of Horner's and arm. The ocular changes rere those of Horner's vation of the eye and arm the ocular changes were those of Horner's syndrome. In the ocular changes were those on Horner's syndrome in two cases prosts appeared only after from ten to twelve bours. My osts always occurred Conjunctival injection leached its manuscript (conjunctival injection reactive maximum than twenty four hours and (as ac than twenty four hours and some maximum unin twent) jour nours and same companied by a sensation of intense heat and some companied by a sensation of intense neat and some 4 mes of pulsation of the cychall which continued for tines of pursation of the eyestal which touringed for five or \$x\$ days and then gradually decreased Easter of \$x\$ days and \$x\$ days and \$x\$ days and \$x\$ days and \$x\$ days are \$x\$ days are \$x\$ days and \$x\$ days are \$x\$ days are \$x\$ days and \$x\$ days are \$x\$ days and \$x\$ days are \$x ophthalmia and h) potension of the facial muscles oppression of the facial muscles of the facial muscles of the facial and a facility of central 12 on was increased over 13 on was increased. were va lable activity of central as only as insteaded in all cases in some considerably. Enlargement of in an cases in some consucrably minargement of the Pajual helds occurred in all cases but was slight the 1900st neros occurred to an cases our was so gur the fields never remotely approaching normal. The the neids never remotely approximate normal appearance of the fundus and night blundness, et appearance or the fundus and it got bundness ere unchanged. The authors state that it would be unchanged the authors state that it would be ullogical to expect better results as these first tenta mogical to expect neutrices and anced cases. The

ti e operat ons ere inniceu to au anceo cases sue effect of the operation is probably limited to im enect of the operation is propagily in teel to im-provement of the ocular inculation. Although the protessent of the path, genesis of retinitis pagentosa s no longer generally accepted any p.o. programment as a no tonger generative accepted any D o ceiure which is orably influences the chord dal The authors circulation ueser es considerat un autoris bel et that their results are encouraging and they circulation deser es considerat on were that them ethod on patients in earle stages more to try the method on patie They report the r cases in deta !

Ba kan H B lateral Glioma T eated by Radiun

Irradiation with ralum or the rocatgen rays has on with it a rank of the robustice ways may ill established procedure in only a fev become a u estan site procedure to doty a ter-eye conditions. Among these are epibulhar car cinoma sarcoma of the d navyus and intra ocular become a

timor with gloma t ol ng b theves mor with ground for a ground cal as for ( ) end. The author d scusses the indical as for ( ) end. The author a scusses the indicat instoric tendication of the o bital deation of the obligation of the cication with subsequent irractation of an atra-contents and (2) direct readiation of an atra-

muar tumor w cnout enucueatura He states that when only one eve is invol. ed and contents and (2) direct rradiate ocular tumor w thout enucleation the scaces that when only one eye is invol. ed and the other has u clul asion nucleation of the at the other has u ciui asion nucleation of the ar fected eye is advisable whereas a cases of bilateral rected eye is anyisable whereas it cases of the ordy useful tumor and those of tumor n of ng the ordy useful tumor and those of tumor n of ng the only useful eye irradiation s best. In the latter irradiation s on s pest in the factor framation 3 th much greater danger to hie than associated th much greater danger to bie than envicestion of the only us ful eye but envicestion of the only us ful eye enucreation our enucreation of the only us ful eye will result in permanent bl naness. Other cases a will result in permanent bi nanes Other cases in this category are those of sarcoma of the choroid in the only useful eye and the rare cas s of metastat c

ranoma or the charata The author reviews the cases reported in the litera ture in which radium was applied externally and carcinoma of the choroid

those in which it was inserted as close to the tumor those in which it was inserted as close to the tumor as possible. He then reports a case of bilateral as possible the then reports a case of bilateral gluona in which on September 13 1932 1 % 6 5 mgm guoma in which on september 13, 1932 two 5 mgm needles were placed within Tenon's capsule as isr neemes were placed within tenon's capsule as lar the back and as near the growth as possible after the nace and as near the Stonen as bossine area for night grone which was completely hired with the tumor mass had been enucleated. The dosage tumor mass nau pren enucleated. The quarge amounted to somewhat less than 400 mgm hrs at amounted to somewhat less than 400 mgm are at 1 cm. On December 28 treatment amounting to about 2 500 mgm hrs at 1 cm was green On April about 2 500 mgm ms at 1 cm was given on April 16 1933 there appeared to be a detachment with no solid mass beneath it. The fundal p cture at this no some mass occasion it. The rundar p cure at this time suggested that further treatment by the first time suggested that further treatment by the first method and poss bly also by a combination of this method and poss bly also by a combination of the method and cross fire application of roseless the was fees the OS Spetember 3; there seemed to be was fees the OS Spetember 3 On No ember 4. considerable improvement. On No emore 2 the reas eye was enuousased and on eram nation showed extensi e retinal detachment fresh tumor masses extens: e reunai ociachment tresh tumor masses and si ghily increased tens on Treatment was then discontinued as it was bel, e ed that the processes of discontinued as it was being to that the processes of destruction had reached their maximum and proc destruction and reactiful their mannihum and processes of repair of great importance in checking the general metastasis and walling off any remaining Scucial microscope and roung place

Col man C C and H II E Cyst of the Optic man C G and H II E Cyst of the Optic N es and Chiasm Assoc ated will an Epi N es and Chiasm Assoc ated with an Epi th lioma of Rati ke's Pouch A h Ophik

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power one authors came; the concusion ones me; were dealing with to separate cist c tumors due to were dealing asth to separate cost cummer due to the separate cost cost of the service problem of the service prob ongon moon a uper the camphary me on the first found and no

connection

Connection

In explaining the cystic growth of the opt c net e
and ch asm the authors state that in early embry The opi c the the retail ciefs is upon usto and d conds. Starks as e not yet closed in to occ me sot a cough Y rmally the central retinal vessels enter through rmaily the central retinal vessels enter through this cleft to become incorporated uside the optical distribution of the contract of the contr this cier to become incorporated inside it in options to be come incorporated inside it in the feature of the f HER E AMERICANCE WICE PROPER HOPEIG OF THE REAL PROPERTY OF THE PROPERTY OF TH evert leads to colobomata in new of these facts the authors belie c it possible that abnormally placed authors hence on possible that annotherly places its he may become incorporated with hither exists a property of the property and ch asm if it has come into contact with the open and the same it the mass come into contact with the optic stalk in early embryonic life and that as a opine assay in carry chord one inc and a CVs is space. ith an ependynal lining may be formed, an epenoymai ining may be formed in hopothesis is in agreement with the ellknown in protections is in agreement with the en annual of ray that turnors are caused by the multiple at on in 17 to at turnors are caused by the mutup cat ob of embry on c cells which become d placed during or emotion c cens wants necome o pieces uninstitution for hing speak ag of fetal bile. In this connection Cu hing, speak ag of the cramopharyngomata says this cp t n are included those I soons which on the Colin t a are included those 1 sions which on the character is a set included those 1 sions which on the character is a set included the set include in early embryonic life

The patient was a woman thirty two years of I the ine patient was a woman unity two years of the me her of six healthy child en. Her illness began me her of six healthy child en. Her illness began me her of six health who her admission me her with a sore throat e got weeks before her admiss in 1) the bosontal Soon thereaf er she not ced a small

to the hospital woon thereat er one not cru a small seelling on the hard palate. Later the softened and

On examination a perforation of the hard palate As a constend A three weeks course of surbecare cleerated was a sovered A three weeks course of and high the high the three weeks governant which was given and by the high three weeks course of any three we wassermany reacts n was perm tently negative

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The and around not buson e net thich a trived beliefe bite and should not produce delights The author reports a case in which a trivel police flap was used with cons level is a cress. The life trap was used with cons letaries eccess, are tree was raised on the left succol the abd men ar laste

a time attached to the therat eminence of the left a time attached to the theraf embence of the left hand the arm being belt in plaster | vert the tube hand the arm being reft in plaster | est the tube hespened upter a ed e of the defect. These meers are a telessed from the up, omen up a stracted of the irespend anteri Yed e of the defect. Three weeks later the hand was liberated and the slump of the sater and name was unteracted and the sturp of the dile i tube attacred to the postenor borner of the direct to attached to the postenor borner and resulted at the stage a frombhor refectoscope and resulted to the stage a frombhor refectoscope and resulted to the stage at the stage a at the stage a strong tree remo el from one a de in were used, has was fren remo et from one sie and the graft attacled Later a sied lar proced to and the grait attact et Later a similar pince; re was done on the other side. The value us steps in the obetation are shown by eighteen that Krabi A S. S. W. C. S. S. S. S. J. D.

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should be included in the extirpation Following operation, X-ray treatment should be given in all cases Howard A McKnight, M D

Cohen, M H Leg Ulcers Due to Thyroid Dysfunction J Am M Ass., 1934, CH, 283

A case of deep ulcerations of the lower extremities associated with myxcedema is reported. The administration of thyroid extract quickly healed ulcers that had persisted unchanged for six years.

The cutaneous changes in thyroid diseases are not well understood. A relationship between circumscribed myxœdema of the legs and leg ulcers of obscure etiology is suggested. Samuel Kahn, M D

Brazier, M A B, and Grant, F M. The Relation of the Impedance-Angle Test for Thyrotoxicosis to Changes in the Basal Metabolism Lancet, 1934, ccxvvi, 125

It has already been shown that the impedance angle is unaffected by the ingestion of food, exercise, or menstruation

In agreement with previous observations, the basal metabolic rate was found by the authors to be increased in the normal person by ephedrin, pilocarpin, thyroid extract, and thyroxin, but not by atropin or iodine. Of these drugs, only thyroid extract and thyroxin have an effect on the impedance angle. The authors therefore conclude that a change in the impedance angle is specific to a thyroid factor and is not affected by chemical stimulation of the autonomic system reacting on the basal metabolic rate.

Samuel Karn, M. D.

Wallace, H. L., and Wevill, L. B. Toxic Golter An Analysis of the Results of Surgical Treatment Edinburgh M. J., 1933, xl, 598

This is a statistical analysis of 285 cases of toxic goiter treated by thyroidectomy at the Royal Infirmary, Edinburgh, in the period from 1922 to 1932 Follow-up information was not obtained in 34

There were 6 female patients to 1 male patient The histological diagnosis was primary toxic or exophthalmic goiter in 146 cases and secondary toxic goiter in 177 cases. The primary toxic goiter was most frequent in the twenty-ninth year of age and the secondary toxic goiter in the fortieth year of age. In both seves and both types of goiter the duration of the symptoms ranged from thirty-five to fifty months. The seventy of the symptoms was not radically different in the 2 types of goiter.

Subtotal thyroidectomy was done in 172 cases, lobectomy in 65, and removal of an adenoma in 21 In 21, miscellaneous operations were performed

Of the 187 patients followed up, about 75 per cent are now in good health and able to perform their usual duties. In 48 per cent of 125 cases the exophthalmos completely disappeared. Only 3 patients showed evidence of myxedema. Three others showed symptoms of parathyroid tetany.

Of the 285 patients, 35 (12 3 per cent) died as the direct result of operation Paul Stare, M D

Schreiner, B. F., and Murphy, W. T. Malignant Neoplasms of the Thyroid Gland Ann Surg., 1934, XCIX, 116

During a period of twenty years forty-two cases of malignant neoplasm of the thyroid gland have been recorded at the New York State Institute for the Study of Malignant Disease These constituted o 37 per cent of all cases of malignancy recorded during that period Coller, Clute, De Courcy, Balfour, Speese and Brown, and Simpson are quoted as giving the incidence of malignancy in cases of thyroidectomy at from 1 2 to 4 per cent

The average age incidence in the forty-two cases reviewed by the authors was fifty-two and six-tenths years. One patient was in the third decade, six were in the fourth, eight were in the fifth, nine were in the sixth, seven were in the seventh, ten were in the eighth, and one was in the ninth. The pathology of the tumors is discussed.

In all of the forty-two cases there was a history of previous thyroid enlargement. The duration of this enlargement ranged from one month to forty years and averaged four and ninety-seven hundredths years In the cases of eighteen patients with far advanced malignancy biopsy was not done. Of fourteen of these who were treated by roentgen irradiation alone, eleven died within a year and two within two years. Of three who were treated by radium irradiation alone, two died within a few months and one is still living after four years. One patient who was treated by both roentgen and radium irradiation died in a few months, and one treated by roentgen irradiation is living at the end of one year Eighteen patients had been operated upon radically before their admission Of these, twelve were treated by roentgen irradiation alone, four by radium irradiation alone, and two by both roentgen and radium irradiation Of the twelve treated by roentgen irradiation alone, two are alive after from one to two years, one is still living after four years, and one died after two years from cerebral hæmorrhage Of the remaining nine, seven died from the thyroid malignancy in less than a year and two after from three to four years

In the authors' experience, malignancy of the thyroid is rare and usually fatal. The only curative procedure is early operation followed by irradiation. When clinical diagnosis of the condition is possible the case is usually hopeless and irradiation is only palliative.

PAUL STARR, M. D.

Smith, L. W., Pool, E. H., and Olcott, C. T. Malignant Disease of the Thyroid Gland. A Clinicopathological Analysis of Fifty-Four Cases of Thyroid Malignancy. Am. J. Cancer, 1934, XX, I

The authors report a study of 42 cases of thyroid malignancy treated at the New York Hospital in the past thirteen years, during which period there were approximately 100,000 admissions and 855 thyroid specimens were examined. They studied also 12 specimens of thyroid malignancy from other sources. The ages of the patients ranged from twenty-two to

sixty nine years and averaged forty eight and eight 408 tenths years and averaged jorry cignt and cignt tenths years and averaged jorry cignt and cignt tenths years. Totly one of the fifty four patients averaged with the previous custence of an adenoma. was recognized as the essential factor in the develop-

ment of the malignancy in 92 6 per cent of the cases ent of the manghancy in 92 o per cent of the cases The tumors were of the following types papillary adenocarcinoma fetal adenocarcinoma epidermoid aucuocarcinoma grant cell carcinoma small round cell caremouns grant corn caremouna amain rounin cert detail and shown by photomicrographs

A correct diagnosis is made before operation in only a small percentage of the cases as there are no chircal symptoms suggesting the nature of the The prognosis is definitely unfavorable In the authors op nion irradiation is the treatment of the authors op mon irradiation is the treatment of choice. Surgery is of little avail after the tumor has invaded the capsule of the adenoma or the par Burger, H A ociated Paralyses of the Vocal Cord enchy ma

JL y \$1 FOI 1 1934 xhr 1

The author d scusses the syndromes of Collet Life during a scusses the syndromes of Coner Strard Jackson Vernet Schmidt A ellis Tapia and villaret and points out the fallacy of each He and a march and points out the samely of each are contends that the classification should be based on

the situation of the malady He suggests the follow

A Syndrome of the bulbar nerves Paralyses of the vago accessory of central and extra medullar ing class fication origin connected with those of neighboring nerves B The syndrome of the jugular foramen thus

named by Vernet This includes only peripheral cases inside and outside the skull. It is a defined malady with a definite diagnostic significance. Not all three nerves need be completely paralyzed On the contrary every affection in or near the jugular

foramen belongs to this group

C. The syndrome of the paraphary ngeal space This is characterized by paralysis in the province of ninth tenth and twelfth cranial nerves and the sympathetic nerve It is a low vagus paral)s s the symposium of the malady be ng lower in the neck than in the syndrome of the jugular foramen As a rule the eleventh cranial nerve and the palate are not the eleventh trainer her we and the vagus may be involved. In some cases even the vagus may be D The vocal cord diaphragm syndrome This is unaffected

a rare simultaneous paralysis due to the compara

tive proximity of the nerves involved NORMAN C BULLOCK M D

## SURGERY OF THE NERVOUS SYSTEM

## BRAIN AND ITS COVERINGS, CRANIAL NERVES

Bykov, K The Functional Relationship of the Cerebral Cortex to the Internal Organs (Funktioneller Zusammenhing der Hirminde mit den inneren Organen) lesinik Chir, 1932, lxxxii-livxii, 12

The author reviews experiments carried out in Pawlow's school during recent years in a study of the conditioned reflexes of individual organs and of functions depending on many organs such, for example, as the function of the consumption of oxygen From these studies three main problems arise (1) the determination of the possibility of the development of conditioned reflexes affecting the Lidneys, liver, and spleen and thereby explaining the relationship of these organs to the cortex of the brain, (2) the determination of the possibility of the development, on a function, of conditioned reflexes having their origin in irritations taking effect in the internal organs, and (3) the demonstration of the internal mechanism of the conditioned refler activity of the internal organs or general functions such, for instance, as oxidation

With regard to the first problem, the author states that he, Alexejev, and Berckmann have been able to show that when, in the case of a dog whose ureters have been brought to the surface of the body, the introduction of water into the stomach or rectum is followed by diuresis and this experiment is repeated from eight to fifteen times, the diuresis will occur later without the administration of water if the dog is again placed under the same conditions. They found also that if a certain sound is made at the time the water is introduced at first, the diuresis will be produced later merely by this sound without the introduction of vater. This conditioned reflex occurs according to the law which was previously determined to govern the reflex of the flow of saliva. It gradually weakens unless it is stimulated from time to time by the unconditioned reflex (the introduction of water), and it is inhibited by other unusual reflexes

In the solution of the second problem the liver was selected as the "effector" organ, that is, the organ showing the effect (Ivanov). In a dog with a gall-bladder fistula, the flow of bile was considerably increased by the introduction of a 14 per cent solution of hydrochloric acid into the stomach. Later, the same result was obtained by the simulated introduction of hydrochloric acid. The effect was slighter but sufficiently pronounced to demonstrate an influence of the cerebral cortex on the secretion of bile by the liver. In experiments carried out by Rickly a similar flow of bile was produced by the introduc-

tion of sodium taurocholate or glychocholate into the blood stream. The stimulant used to excite the conditioned reflexes was the preparation for the injections or a certain sound. In investigations of the spleen, the author, v orking with Gorškov, made use of the subcutaneous displacement of the spleen. To produce an unconditioned reflex on the movements of the smooth musculature, a weak electrical stimulation of the lower extremities, just enough to cause pain, was used. If this was associated with a whistle the whistle alone was sufficient later to cause the movements of the spleen.

Gas metabolism was studied by Olnjanskaja The basal metabolism was determined in a human subject. The man then performed muscular work for two minutes a metronome being set in action beside him. After from six to fifteen of such sittings the beats of the metronome without muscular work were sufficient to drive the basal metabolism up to 100 per cent. Other findings showed that the conditioned reflex caused increased oxidation in the tissues, especially in the muscle tissue. Therefore a trophic action of the nervous system was proved.

In attempting to solve the second problem, the author with Ivanov conducted the following experiments

With careful exclusion of all "extraceptive" stimulations, that is, stimulations perceptible to the sense organs, water v as introduced through a gastric fistula into the stomach of a dog which had been This caused a diuresis subjected to gastrostomy v hich could be measured as the urine was discharged from the ureters which had been made to open externally A simulated introduction of vater was then carried out, that is, the vater introduced through the gastrostomy was withdrawn completely after a few minutes. In spite of this withdray al diuresis occurred again and followed a curve similar in all respects to that observed when the vater was allowed to remain in the stomach. Therefore the stimulation of the gastric mucous membrane had a conditioned reflex action on the renal secretion. The author terms such a stimulation "intraceptive." He reports also experiments demonstrating the existence of "muscle receptors," "glandular receptors, and especially "organ receptors

All organs are supplied not only with centrifugal fibers through which they receive stimulation to activity from the nerve centers, but also centripetal connections along which they inform these centers of the status of their york

To the question whether every organ has its or n localized, narrowly circumscribed centers in the brain or not, the author answers that there are no such centers. He believes that the cerebral cortex effects temporary connections between the various

extraceptive and intraceptive impulses as they are extraceptive and intraceptive impulses as tiney are needed and passes these impulses on to the sympa needed and passes these adjustes on to the sympa-thetically innervated organ for which they are

The study of the internal mechanism of conditioned reflex activity presented the greatest diff intended culties. With Alexiev and Berckmann, the author was able to show that denervation of one kidney was some to show that denervation of one stoney neither abol shes the previously set up conditioned reflexes nor prevents the formation of new reflexes or that type The conclusion: drawn that the central that type the concussion; makin that the continued by the ugal segment or the renex are is producted of the humoral route. It is thought that the centripetal stimulation tran mitted to the brain is projected summation tran inities to the main in projected onto an endocrine gland (which one is not known) onto an endocrine grand (which one is not known) and that the product of this gland acts spec fically

on the kidney by way of the blood stream the author discusses also recent experiments h suggest a chemical action in tran mission of n suggest a chemical action in train mission of nervous process a chemical coordination of

the experiments and conclusions briefly re newed pro de an explanation for many pathological y pro the an explanation to make paramongreat rect unconditioned refleces, which act on the vari is organs the action of the innumerable cond oned reflexes must always be borne in mind. Any oneu remeace must already be bound in minus 1919 orm of treatment that is at all protracted is fol oved by the development of conditioned reflexes owen by the development of committoned renexes.
This explains why in addition to the details of the treatment the influence of the personality of the physician on the patient is frequently of extraord physician on the patient is requestly in ever nary importance in the outcome of a disease

### The Modern Treatment of Brain J Am M As 1934 Ct 273 Cabill H P

Canul calls attention to the occurrence of aseptic venous s nus thrombosis extending to the torcular venues a reas amonous a extending to the installation or even the cavernous a rus which may give rise to or even the cavernous a and which may give rise to signs suggesting brain absress. He cites two cases organo oughtening usam moress are circs two coses. He then briefly discusses the diagnoss of brain abscess and outlines the treatment. He prefers to trace the abscess along the pathway of infection from the otorhinological focus and when abnormal from the ocorumological social situ when annoused dura or a sinus tract through the dura is found to enter the abscess cavity at this point. He removes a enter the auxers cavity at this for it removes a cone of brain tissue and opens the capsule with the cone on main crosses and opens one capouse with the electrical knife and then empties the abscess and in electrical antic and then empires the abscess and it troduces a Mosher drain Leo V Daymors M D

Laffitt | II Intracranial Pneumatoc le (Pn um

The case reported was that of a man twenty three reputied was that or a man eventy the

For ten days his course at home was uneventful but on December 27 he was returned to the hospital on December of the was returned to the reflexes on the with paresis and exaggeration of the reseases of the right side of the body. The spinal fluid was found to be under a manometric pressure (Claude) of 11 pat was otherwise negative \_\_\_\_\_ tay examinat ou on ne maner w memoments bressure (r-maner) or it showed a large collection of air in the left frontal region occupying an area about the size of the paim region occupying an area about the size of the pand of the hand. Under local angesthesia the cranium or the many price area accounted the transmit was opened and stylet passed into the pneumatocele. was opened and stylet passed into the fineumatocere.

The patient was discharged from the hospital The patient was discharged from the mospital February 15 in apparently good health and when

Following a review of various theories as to the seen aga n later was still normal nechanism of pneumatocele attention is called to the fact that in the author's case there was little in the fact that in the author a case there was much the chineal findings to suggest such a complication are constant mounts to suggest such a cumple cation as there had been no loss of spinal fluid or bleeding from the nose or ears. Apparently the bullet had from the mose of each appearancy the pount has been deflected so that it opened the inner wall of the neen nemerical so must be opened the must want the left frontal sinus and the tissue over the bony defect ters trustial signs and the classic over the nonly detect acted as a lave which permitted air to pass in but

Craig W McK and Kernohan J W Cerebral

Cerebral cysts encountered at operation may be Cyst J Am M Ass 1934 Ct S congen tal inflammatory traumatic parasitic or congrue (as minaminatory caumatic parasitic of neoplast c To the neurosurgeon the most important and common group are those which occur with neoplasms These have been found assoc ated, with practically all types of primary tumors of the b a n

practically an types of primary temorals in the death containing tumor in the satuation is the men ngiona. of which only two have been seen by the authors water only two have seen seen of the authors
It was found that only the neoplastic costs con sistently contained xanthochr mic fluid. All ther sistently contained ranthorn mic in a 411 ther cysts contained clear fluid. It was noted further cyscs concames mear mun at was moved nurther that in general the more benign the gloma the

unar in general the more occuping the ground the more prone it was to undergo cystic degenerat, it Decompression and simple drainage we Netgaintessons and a appearance we occur RUNDWER BY A HAUR PERSON OF PARAMETER WHITE ABOVE I a later more rad cal procedure such as part al o complete emov I of the tumor Following in tial drainage subsequent aspirations were somet mes uramage supsequent espirations were some mes necestary to pr long the pathati n Se eral op r nece sary to pr tong the painati it or erat up f attree procedures ere sometimes nece sary for the more benign tumor n order to rem ve them om

The authors report f urteen cases pletely

Roussy G and Oberling C A Contributi n the Study of Tumors of the Hypophy i (Co the Study of Lumors of the stypophy tribut on \$ 1 fitted d tum urs hypophy

A deta led histolog cal description is given of var ous types of tumor of th hypophiss maj rity of tumors of the hypophys are aden m The se neoplasms o cur at all ages but are r t lobe of th hypop ... soung adults

cells with very little cytoplasm and no granulations, and chromophile cells with a highly developed cytoplasm and many granulations. The latter are divided into basophile and eosinophile cells. Accordingly, there are chromophobe and chromophile adenomata and various secondary and intermediate groups.

There are also two forms of chromophobe adenomata—those with an intensely vacularized trabecular structure and those with an alveolar structure made up of smaller cells with a lymphoid appearance resembling the principal cells of the normal

hypophysis

Three groups of mixed adenomata are recognized those with cells resembling chromophile cells but with few or no acidophile granules, those with cells of the chromophobe type but containing distinctly acidophile granules at the periphery of the cytoplasmic body, and those with cells of a chromophobe type containing granules slightly stained by eosin

There is also a group with fetal cells, found particularly in the lateral part of the anterior lobe. The fetal cells are cylindrical cells with a dark cytoplasm arranged in bands and representing

vestiges of the embryonic hypophysis

Still another group of tumors are those made up of pregnancy cells which resemble the hyperplastic

cells of the hypophysis seen in pregnancy

Secondary lesions are quite frequently found in cases of adenoma of the hypophysis. They may be so extensive as to obliterate the tumor structure. The most common are hamorrhagic foci, but there may be also foci of necrosis consisting of a pulpy mass containing crystals of fatty acids or cholesterin. One case of cystic degeneration has been reported.

It is generally believed that chromophile adenomata are the most frequent, but among the authors' fortv-one cases there were thirty-two of chromophobe adenoma, twenty with clear cells, five with pregnancy cells, one of the fetal type, and one of an indeterminate type. There were two chromophile eosinophile adenomata, one basophile chromophile adenoma, and six adenomata of the intermediate or mixed type. It is possible that the predominance of the chromophobe form in surgical cases is due to the fact that this type of adenoma generally grows to a large size. Statistics showing a predominance of chromophile tumors were those of anatomists who found the tumors at autopsy, the tumors were generally small.

It is very difficult to differentiate between benigh and malignant tumors of the hypophysis histologically. Some malignant tumors show a distinctly epitheliomatous structure with cubical or cylindrical cells not in the least resembling that of adenomata, but some do not show any histological evidences of malignancy, in analogy to other tumors of endocrine glands, the typical example of which is metastatic

goster

The article contains photomicrographs of the different types of tumors, some of which are colored Audres Goss Morcas, M D

Kornblum, K Deformation of the Sella Turcica in Tumors of the Middle Cranial Fossa Am J Roentgenol, 1934, XXXI, 23

The changes seen in the sella turcica in roentgenograms of the skull in cases of brain tumors are classified by the author according to the location of the tumor as follows (1) intrasellar, (2) extrasellar, (a) suprasellar, (b) parasellar, (c) metasellar, and (3) sphenoidal bone Kornblum discusses chiefly the changes in the sella produced by the parasellar tumors, those immediately adjacent to the sella in the middle fossa These changes are found chiefly in the dorsum sellæ, which shows considerable erosion while the posterior clinoids, although sometimes indistinct, are preserved. In some cases the floor of the sella is eroded. Less frequently, the anterior clinoids are also affected

LEO M DAVIDOFF, M D

Stevenson, L, and Echlin, F The Nature and Origin of Some Tumors of the Cerebellum Medulloblastoma Arch Neurol & Psychiat, 1934, XXXI, 93

The authors describe six tumors confined to the cerebellum which they believe arose from the granular layers. They think that the term "neuroblastomata" is more suitable for such tumors than the term "medulloblastomata," but because of the origin of the neoplasms they suggest calling them "granuloblastomata."

The article contains illustrations showing the variation in position of the granular layer at different ages. The granular layer at first appears on the outer surface of the leaflets and later migrates inward to the position it occupies in adult life. The outer granular layer is composed of round undifferentiated cells without processes which later become elongated as they reach the final internal granular layer. Such undifferentiated cells associated with mitotic figures and rapidly changing both their shape and position might easily be supposed to give rise to tumors.

In the first case reported, sections showed tumor cells apparently growing from the outer surface of the leaslets and separating them. In other parts of the cerebellum there appeared to be remnants of an external granular layer. The second tumor showed a similar arrangement of tumor cells growing from the external surface of the leaflets and pushing them apart The third tumor showed less stroma than the first two neoplasms and would ordinarily be considered a typical medulloblastoma places it appeared to be growing from the outer surface of the cerebellar leaflets. At one place in the cerebellum the typical appearance of a vestigial external granular layer could be seen The cells of the fourth tumor strongly resembled those of the granular layer of the cerebellum The authors believe that this case was identical with the first two cases described, although no gross material was available for study Microscopic examination of the fifth tumor showed the internal granular layer of the cerebellar leasiet to be continuous with the tumor

tissue. The neoplasm looked like a continuation of this grapular layer. In the sixth case the tumor grew from the outer edge of the crebellar leaflets and there was an external granular layer similar to that found in normal newborn intant.

The authors emphasize that if medulioblasts occur in the nervous system there is no good reason why they should be contined to the cerebellum or to the roof of the fourth ventricle and produce tumors practically always in the cerebellum. Furthermore the finding in medulloblastomata of a few cells which resemble either neuroblasts or spongioblas s is not suff eient evidence on which to base the theory that the cells of medulioblastomata are bipotential and capable of producing both neuroblasts and pongtoblasts However if the tumors described in this article art e from a specific cerebellar structure this would explain more read by why they are confined so largely to the cerebellum Their sun no ed onem from the external granular layer of the cerebellum would explain the finding of cells resem bling neuroblasts as this layer is predominately com posed of neuroblasts. The differences seen in the normal development of the gr nular cells in man and the lower animals seems to warrant the assumption that the cells in the reported tumors may vary in size and staining properties and still be granule cells The color and tendency toward rosette formation

is shared by the granular layer of the cerebellum as well as by meduloblastomata

ROBERT ZOLLINGER M D

In 1930 Carillo after us ny Balado s method of iodo entriculography first described the d'agno tic sign of contralateral deviation of the aqueduct of Sylvius and the fourth ventricle in cases of cerebellar and cerebell pontine tumor. In this article he confirms the importance of ventriculography with opaque sub tances and reports five new cases (four of cerebelloponture tumor and one of tumor of the cerebellar hemi phere) which were controlled by all of the patients were first seen in the st ge of advanced intracranial hypertension. In the cases of three of them only a decompression was possible The cerebellar tumor and one acoust neurotibroma were part ally remo ed. The devia tion produced by th cerebellopontine tumors was I muted almost exclusively to the aqueduct leaving the fourth ventricle in is a and in the majority of cases incompletely tilled. The cerebellar tumor produced a displacement involving not only the aque duet but also the fourth ventricle and the cisterna which were completely filled Another differentiat ing feature it cases of cereb llar tumor is un lateral occlus on of the foramen of Luschka

These s gas have the same diagnostic important as an eases of instructionarial consol they asternoise as deviations of the third and lateral ventricles in cases of tumor of the terrebral leng pheres at the tumor is large deviation of the aquients as companied by blocking of the journey earth wateriels and the signs of median and lateral hydrocephalius to exist. If the tumor is smaller the ventricular system remains permeable and a large hydrocephalius many or may not exist.

The s gn of deviation of the aqueduct is of great value in ca es of tumor of the cerebellopontine angle with incomplete symptoms. These tumors are frequently mistaken for cerebellar tumors an error which may be confirmed by ventriculograms if they are made only with air Indoventriculography has proved that bilater I hydrocephalus without other had ags bitherto considered almost pathognomonic of cerebellar tumors may be caused also by tumors of the third and fourth ventricles cerebellopont ne angle peduncles pons and medulia and by arach noiditis Moreover this method provides the me dum for e tablishing the mechan sm of b lateral hydrocephalus roentgenologi ally. The sign of deviation of the aqueduct and fourth ventricle sho s how the cause of a simple hi ateral hydrocephalus as revealed by air can be demonstrated with exact ness by Balade a todoventricule graphy

M E Monse M D

### SYMPATHETIC NERVES

Shaw R C The Sympathetic Syst m and Paln Ph nomena A ch S e 183 KY II 72

The author reports conclus ons drawn from certain experimental and direal observations resigned in the afferent associations of the simplified by term. The observations were correlated with the clin all re tils of sympathicctomy for severe new rappic conditions in sat cases. These cases are ported. Shaw summarizes his conclusions as fol-

lows

The sympathet c bbers my conduct afferent
stimul subserving common sensat n after the
e tirpation of the somatic time vation. This is
t on appears to edy gradually after remail of
the pinal nerve supply.

In certain types of nitract ble neuralg a simpathetic fibers con ey imput es of pain which are distinct from the cord tions of pain c n ) ed by the si nal sistem

3 The sympathet c s stem a ts as a contr l n the s matic sensory thresholds and the rem al 1 the influence is followed by a tempo ary norea

this influence is followed by a tempo are norea of a minon sens to to
4. The anatomical sympathetic path a in the

cervicethorac cireg on contains spin factory fibers
the irritation of which might sult in a omp site
type of neuralgic fain

Surg cal ablat on of the pa aspinal g ngl x will definitely use the sympathetic type I nt table neural gia through removal of the me han sm

of pain Periarterial sympathectomy will certainly relieve pain in similar conditions, and it is suggested that the operation produces its results by the induction of an inhibitory phase through the radiation of molecular shock throughout the sympathetic neural circuit ROBERT ZOLLINGER, M.D.

Lewis, D, and Geschickter, C F Tumors of the Sympathetic Nervous System Neuroblastoma, Paraganghoma, Ganghoneuroma Arch Surg, 1934, XXVIII, 16

The authors review tumors of the sympathetic nervous system, including 103 tumors studied in the

Johns Hopkins Hospital, Baltimore

Thirty-three of the 40 neuroblastomata reported occurred in the medulla of the suprarenal gland or the sympathetic ganglia adjacent to the medulla About one-half of them developed in children under three years of age. The most common symptoms were fever, an abdominal mass, anæmia, and vomiting from pressure on abdominal viscera. The clinical picture of appendicitis was simulated in 5 cases Multiple metastasis to bone occurred in 8. In the latter the clinical course was rapidly downward and in the majority death occurred within two months. Although these tumors may soften and decrease in size following roentgen-ray and radium therapy, irradiation seemed to hasten metastasis. The results of surgical therapy were unfavorable.

Fifty-two paragangliomata were studied by the authors. These are divided into 3 groups (1) those arising from the carotid body, (2) those arising from the medulla of the suprarenal gland, and (3) the argentaffin or carcinoid tumors of the gastro-

intestinal tract. The authors have found the following factors of importance in the diagnosis of paraganghoma of the carotid body. (1) the position of the tumor at the bifurcation of the carotid artery, (2) long duration of the symptoms and slow growth, (3) an expansile pulsation, bruit, and thrill, suggestive of aneurism with absence of other changes in spite of long duration of the tumor. (2) a tendency of the growth to bulge into the phary ny vithout causing ulcerations of the mucous membrane, and (6) failure of the tumor to respond to irradiation.

Like the tumors of the carotid body, most of the paragangliomata of the suprarenal gland occurred in adult life. Hypertension, hypotension, and vasomotor instability were the most frequently noted clinical symptoms. Urinary symptoms may develop

with deformity of the renal pelvis

The argentaffin tumors of the gastro-intestinal tract occurred twice as frequently in the appendix as in the small intestine, but were rare in the stomach and large intestine. The majority were benign and ran a slow course. About 20 per cent of these tumors, especially those involving the small intestine, undergo malignant changes.

The authors add 8 cases of ganglioneuroma to the 103 cases previously reported. Although these tumors are usually benign and solitary, 3 of those in their cases were malignant. The symptoms are due to pressure and depend upon the location of the tumor. In 1 of the authors' cases a very small ganglioneuroma was found on the auditory nerve. Two of the malignant cases are reported in detail.

ROBERT ZOLLINGER, M D

# SURGERY OF THE CHEST

### CHEST WALL AND BREAST

Mattina A A Contribution to the Etiology and rina A A Contribution to the Etiology and Pathogenesis of Bleeding Nipple (Contribut racingeness of meeting nipple (Continut allo studio 1 opatogen tic della mammella an

ano studio Lopatogen ne dena mamme. guin nte ) R forma med 1933 klaz 1772 The author reports a rather unusual case of bleed ing nipple in the male The patient was a man forty ing nippie in the male the patient was a mail forty five years old who eighteen months before his ad miss on to the clinic noticed the gradual develop

ment of a small nodule in the right breast slight en ment of a small notice in the right oreast sugar en largement of the right nipple and the outflow of a few drops of a cloudy red fluid after pressure on the There was no spontaneous pain but the breast was somewhat tender on pressure The left side was entirely normal. A few days later the mass some was encired normal and smollen. This condi-became reddened painful and smollen. This condition persisted for three days at the end of which time a few drops of pus flowed from the nipple time a lew arops of pus nowed from the nippie 1 ne symptoms and masses then disappeared E ght symptoms and masses then disappeared E.gnt months later bleeding from the n pple occurred for montas sater buccumy from the a ppie occurred age

Under local anaesthesia the n pple region was re every twelve to fifteen days sected Microscopic examination revealed the pres sected anticonceptic examination developed in the ence of a subacute mastitis inflammation of the milk ducts and papilloma formation within the

Mattina reviews the literature on bleeding nipole briefly and discusses some of the theories regarding milk ducts the path genesis and etiology of the condition. In the pain genesis and enough of the communon and the male bleeding from the nipple is most often as sociated with a malignant lesion of the breast but may be caused also by benign lesions The phenom may ne caused also by being a sales paramate enon is a manifestation of many disturbances in the breast and does not constitute a clinical entity

## TRACHEA LUNGS AND PLEURA

Amberson J B Jr and Riggins H McL Liplo person J is Jr and Kiggins it MCL Lipid dol in Bronchography its Disadvantages Dangers and U es Am J Rec it of 935

After bronchography retained hpodol is grad nater oronemyraphy reta neo nip one in grad unlike decision in grad in sorption through the lung occurs only to a slight surprises the same occurs only to a signi degree if at all. A slight exidative reaction usually occurs about deposits of lip odol in the healthy lung occurs about deposits of up odos in the nearing to but this seems not to be harmful chinically. unt this seems not to be narmini cunically. The transudation of orderna fluid may be considerable and may account for the rapidly developing roent genographic lobar opacity reported by some roent

Lipiodol may be retained in the pulmonary alveolt for days months or years The persisting genologists

density may impar the value of serial roentgeno

osers as genues for treatment. Disadvantages and dangers pecul ar to the crico grams as guides for treatment thyroid and transtracheal method of inject on in chide the escape of oil into and its indennite reten cause one escape or our miss and its indemnite recent tion in the cervical and mediastinal tissues the possibility of infection of these tissues by escaping bronchial discharges and pain dysphonia ordema of the glottis, dysphagia subcutaneous emphy sema

to air childulishin Iodism is due chiefly to swallowing of the oil and the absorption of iodine through the intestine. As and air embolism a rule this can be avoided by injecting the oil care fully in small amounts adopting measures to pre vent retention in the lungs drainage of the bronchi tent recention in the songs distinger on the mounts after bronchography by posture and the admin s

anum of a office same Funge In cases of infectious disease mainly tuberculosis tration of a brisk saline purge

an cases of infectious disease manny supercontains and acute or chronic suppurative conditions dissemination or aggravation may be caused by instances of serious results and fatal ties in such eases and discuss the reasons for such results They cite also complications showing the danger of the intratracheal injection of iodized oil in cases with impairment of cardiac or respiratory function In conclusion they describe the select on of cases for the injection of rodized oil and the technique E RL O LATIMER M D

that they have found most satisfactory

Pisanl S A Peculiar Mobile Area of Increased and S A Peculiar Mobile Area of Micreason Resonance in Pneum thorax (Sopra u ap t t c l te are d persones m b l nel pneumot ce) c l te are d persones m b l nel pneumot ce) Pol d s R m 1933 l s prat 1920

In every case of pneumothoray there is an area of an every case of phreumorinets there is an area of increased resonance due to the presence of gas in the pleural cavity In cases in which the pleura is free picural cavity in cases in which the picura is need from adhesions this area may shift about ac ording to the laws of aerodynamics so that the air in anably occup es the most elevated portion of the pleural The form of this area aries from case to case according to the local disease but with the patient in the horizontal supine position it is frepatient in the horizontal supine position it is ire quently bell shaped. The d mensions of the area of quentry near suspent the discussions of the area of increased resonance are also extremely ariable depending on the amount of gas present the distensibility and movability of the adjacent pleura and the elastic tension of the lung tissue

Most of these facts may be demonstrated by phys cal examination and are easily shown by ray pn)s cal examination and are cashly shown by the cashing shown in the movable area of EXAMINATION RECOGNITION OF THE STATE OF THE of early limited pneumothorax and in the deter mination of the course of pneumothorax therapy

Mirrin, H. P. The Importance of Bronchoscopy in Bronchiectusis (1) In Med. 2014 vn. 10

I tour a review of Lod cises of bronchicetas's Marsim conclude, that the diagnosis of this condition is outle best by bronchoscopy supplier ented by X riss to as tellar me the injection of hipodol. He states that bronchoscopy is also of the apontic value bronchoscopy aspiration bas proved to be the mest arise action increased of treating cases in which a preamonitis has decloped about the bronch all diagnosis. In so, the cases there is a tender to the abscess formation because of the relative toward obscess formation because of the relative measured law orthogonal transfer with a persistent automatical law orthogonal to bronch ascopic application in silver mitrate to the bleeding area has been be relief.

Evo types of posteral dramage apparatulate discreted and short in diastrations.

I R A EL L WATER M.D. A PRINCE M.D.

Warner, W. P. and Graham, D. I obar Atelectists as a Cause of Triangular Roentgen Shadows in

Stuhl, Camendron, and Marques Roentgen-Ras Observations in Fifty Cases of Pleumi Calcification that his calculations pleudies a proposide carque to of terrations radialo, in terral Archimeta-chir de Laffar resf r, 1033 3111, 413

In there, of the fifty crees of plears calculation rendered by the authors the deposits of calculation rendered after injuries (in fourteen a projectile was still present in the thorax) and were directly related to humothorax. In these, they followed confibrations plearist, in two, empressa, and in three, therapeutic preumothorax. In they, the cause was not determined.

In every instance the deposits vere discovered by roentgen ray examination. Some of them vere surprisingly extensive, covering nearly the entire pleural surface. They produced a dense shadow or appeared as scattered granules. Lateral roentgenograms may be necessary to determine the site of a deposit, and exploratory puncture may be required to distinguish it from pleurisy.

The various shadows produced by the calcium deposits are shown by sixteen roentgenograms, and the I rench literature on pleural calcification is reviewed

MAPSH W POOLE, M D

d sophagus and mediastinum

Collins 1 N Testons of the Hoppingus Med

collins reports tive cases of lesions of the a soph ness likely enther enaphysize certain features in appear is an illustrate the rater assophageal lesions to that of a man sixty inches sold who coaplined of a continuous granding pain in the center of the lost referrum and the upper epigastriarn and had to take the The Land test showed free and us, total and res Rountien examination reserted a filling veloci at the cardioc orifice suggesting coronoms. One mouth later roentgen examination in the Trendeleaburg position revealed a histus Leruis meli reduced itself in all other positions fritial of the scorich is a done torother with paterier pastro enterestoral for diodenal ulcer Six counts later in obstruction deciloped in the raddle of the a coplainment of an extensive cureinoma version why Arry eximination

green in that of examined are sear who held a cliver allowing I reminition dis losed s southed murocata in cours and also me of tree acul in the stownch. A cophigoscopic and fointgen expansion reveiled no shnorralities. The condivon many ed then the arrant was treated riod od v bloster a trainer et la teat se est e la theore preducts a cough and displayer and hid less with The spetum's repurulent and foul. The parent - enverted, and his temperature was about 100 degree I Rocatgen examination rerested a large discess with create formation and partial obstruction of the applicates in the region or the classicles. Displacement of the asopharus to the right suggested a traction diverticidim. The obstruction pradually became complete and gastros The author states that a 777723331 VG traction diverticulars due to an adjuscint inflata matory process is unusual

Calcivis that of a managed into four years who had lost weight and strength and had somited frequently. Roentsen examination revealed a circumma of the storach obstructing the lover end of the asophagus.

Case 5 vas that of a man lifts mine veirs old vho complained of chronic cough, disphight, and hoar eness. Roentgen examination revealed a large globular discriticulum at the lower end of the asophagus on the left side. The author believes that this vas a pulsion discriticulum of congenital origin.

J. Daniel Williams, M.D.

Jackson, C. and Jackson, C. I. Pulmonary Symptoms Due to Osophageal Disease field (1/0 large for 1, 1933, xvm, 731

The authors point out nine ways by which pulmonary symptoms may be produced by pathological conditions in the asophagus and hypopharyny. These are the following

I Inspiration of infected food, blood, or oral, pharyngeal, or masal secretions which overflow into

INTERNATIONAL ABOUT ACT OF

e larynx because they cannot pass through a

2 Direct extension up and over the lary ngeal r m ( pathological processe originating in the res) phageal or hypophary ngeal wall

Direct extension through the esoplag tracheal wall or the will of a bron hus wall, the nam pronenus Direct extension of the soph ageal disease to left main bronchus

the pleura or through the pleura into the paren 5 Direct extension of the excephageal les on to chyma of the lung

the mediastinum and thence to the lung 6. Extension of the ersophageal disease by way

of the blood stream or lymph channels 7 Compressive stenosis of the traches or broa

chis without pathological involvement of the tracheobronchal wall by bulky exophageal lesions glandular metastases or foreign bod es lodged in 8 Laryngeal paralysis caused by pressure upon the esophagus

o Laryngea: paratysis caused by pressure upon or invol ement of the recurrent laryngeal nerve 9 Reflex symptoms especially cough excited by a lesion such as a carcinoma

by disease limited to the asophagus In some cases the pulmonary symptoms pre dominate over the causative asophageal symptoms

to such an extent that the latter may be ent rely disregarded by both the patient and the physi The characteristic pulmonary symptom of ceso phageal disease is sudden asking with cough ag

choking and strangling The patient believes that cousing any arranging for patient orneres that the source of the cough is altogether laryngotraches! and does not realize that the accumulated secretions have overflowed into the larynx This overflow and this symptom may occur in health but they are much more marked when ecsophageal drainage is pudding of the secretions in the pyriform's nus impaired by stenosis

as seen in the lary ngeal mirror is an important early as accuming the lary ingent militate is an important entry sign of desophageal stenosis with possibly impending

In conclus on the authors state that in the search for an obscure cause of cough an examination of pulmonary complications tor an obscure cause of couga an examination of the crophagus should be made with the roents a ray

Hindse Niel en S Peptic Ulcer of th (Esophagus and the ocsophagoscope

Pepliculcer of the asophagus is usually an is lated reput unter or the usophases is assumed and the esophases lesion. It occurs in the lower third of the esophases. resion at occurs in the lower than of the desophages. It varies in size from that of a pea to a lesion measur ing from 8 to 10 cm and in olving the entire cr camference of the asophagus in a gridle | ke fashion Take ulcer of the duodenum but in contrast to une the stomach it occurs more frequently in the stomach it occurs more frequently in the another decreases the The author discusses its

The most characteristic symptom is the pain etrology and pathogenes 5 in detail men than in women and most constantenance symptoms as the past.

This is usually localized in the upper part of the

epigastrium behind the sternum and may carend Because of hæmatemes s are also er) common the absence of typical symptoms the diagnosis and to the scapulæ the auxence of typical symptoms (he thagnosis and differential d agnosis may be d ff cult. Fluoroscopic e amination discloses a niche a fill ng defect e anunation discusses a mene a mi ng gener t stenoses of arying degree. The niche may be due t overnoses of anything degree the mic us membrane loss of the us or folds of the mic us membrane Above the stenoses asophageal distations may occasionally be observed. A definite diagnos s may In conservative treatment as in gastric ulcer be made by esophagoscopy

the use of a liquid diet is to be considered. In add from conservative treatment should include the admin strat on of alkalies in po order or I quid from admin strat on or assures in po voci or 1 quint 1 rate the administration of olive 01 several times daily and painting of the ulter with cocaine and 2 5 to to het cert solution of silver nitrate once or ti ice weekly through the asophagoscope or the insuffla necesty emough the resulting oscille or the insumation of bismuth subnitrate. Spasms require the admin stration of belladona and sometimes the

As surgical treatment gastrostomy to exclude the use of morphine ulcer comes up for consideration. The treatment of eumydrin and papaverin hæmorhage requires strict regulation of the det ped rest and symptomatic measures In perforation the treatment indicated depends on the site of the The operative treatment recommended for stenosis is the Roys of procedure antethoraci anastomosis between the resophagus and stomach anastomosis between the templingum and sommers by the formation of a skin tube along the first part of the sternum

The prognosis of peptic ulcer of the ecsophagus must be considered grave. Of the seventy patients must be considered grave. We the seventy patients whose cases are reviewed by the auth r only seventeen are still alive. The chief danger is per foration which is usually fatal

The exper ments reported were performed on cats In the first five animal resect on or cm. I the thoracic croophagus was follo ed by purulent pleurisy due t insufficiency of the sutures Con pictures dure the manufacture of calgul were made in the mucos

the knots be ng placed in the muscular c at After these unsuccessful experiments the author ancer these unsuccession experiments the author entimoyer that the limest vacanines and virtue was not infected by salt a or infect us mat rial from the lumen. Seven additional cats were us d. In one 1 cm of the cervical portion and in si from one 1 cm on the crivical portion with me is non 1 / to 5 cm of the thoracic portion of the croopia to 5 cm or the thurselt port on or the essential gus were resected. In two of these cats a certain gus were resource an two or three cases an a secutioned 2 cm above the displaragm the aboral p.r. tion was in agnated into the stomach and the penpheral portion anastomosed to the stomach prictal Publish aliastoriused to the augustic ral months after the operation the animals were killed and the sites of resection subjected to micro-

In no animal was there my postoperative infection. One cat, which was subjected to resection be tween the bifarcation and the cardia one hundred and twelve days before a second operation, an exophagogistrostomy, died of purulent pleuries ten days after the second operation. In this case the first operation impaired the circulation to each an extent that the occurrence of healing a second time in the immediate vicinity of the resection could not have been expected. The mucous membrales showed marked various vicins.

In all cases a continuous circular suture—as indeed in the review. Microscopic examination showed that the silk sutures in the muscular coat were not absorbed, whereas those in the ratio a vere eliminated.

The resection of 5 cm of the asophicus of the cat, which is from 16 to 17 cm long, is equivalent to the resection of 8 cm of the human a sophicus, which is about 25 cm long. The author believes that with the technique described and a circular signature.

Aguirre, R. G. and Arnor, J. J. Paroxysmal Inchypness of Decubitus in Tuberculous Adenomediastinitis (Tagupper paroxi tico de decubito por ade amediastinitis tuberculosa). Ser ira real 1955 xl, 1833.

The case reported v is that of a girl nine veirs old. In the erect position there was no dyspatial and respiration v as normal, but a fee sconds after the patient assumed the horizontal position a sudden severe paroxism of treny pinal developed and reportion reached the chormous rate of from 1.0 to 150 per minute. The Larizontal position could be maintained for only a short time. When the creet position was as in a resumed the paroxism (exceed as suddenly as it began

A discress of tuberculous adenomediestinitis was made principall on the basis of the rocritic findings. The authors concluded that the horizontal position produced pressure on, and irritation of, the preamogastric nerses. With the Matrix M.D.

# SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM Med ney F Howes E L Colp R Grace R V Abdominal Wound Symposium

MELENEY and Howes review 55 cases of d srup tion of appointed a onings with biotings u of the sizera which occurred in the Lesphtetian Hosbital John in a period of e ght years. The incidence of this complication in all cases of abdominal opera or cans compandence in an cases of amountain opera-tion was about 1 per cent Fifty of the cases were tion was about 1 per tent sury of the assessment carefully analyzed D srupt on occurred most comcaretuny analyzet a stupt on occurrent most our monly in patients over forty years of age and was mounty in patients over jointy years on ege and mast twice as common in males as in females Only 14 twice as common in more of the 50 patients were under forty years of age os eur as pauceira nese univer musy feeta au age Fourteen of the cases nese clean 28 nese con taminate and 8 west infected. The distribute force was an andrea art afron ea unant no mag. a force was an undue activity in 14 youth ng in 38 a counts in 29 distention in 38 and hiccough in 18 The disruption occurred in an upper vertical incision in 33 cases a middle effical incision in 4 a lover in 33 cases a mucie extreas intension in 4 a 30 ver vertical incision in 4 an upper oblique incision in 7 vertical incision in 4 an upper conque incision in 7 Drains were used in 19 cases

1 me would were traced of plain category in 4 cases sultres of plain and chromic cateut in 3 cases continuous plain and chronic catgut in 3 cases continuous sutures of chronic catgut in 42 cases an interropted suture of chromic catgut in 1 case a continuous suture of silk in 1 case circular retent on sutures in suture of siik in 1 case circular retent on sutures in 4 and lateral sutures with buttons or tubes in 17 cases. The operations followed by wound damper of the operations of t cases tre operations toutover or wound usuary and tout most frequently nere cholecusteriomy and the most altra y as 44 per gastro enterostomy. gastro enteroscomy the mortality vas 44 per cent The greatest number of d sruptions occurred ceut ane greatest number of 0 suppions occurred between the seventh and the tenth day after the gastro enterostomy

Disturb on of the wound is due to too rap d ab sorption of the sutures appl xmating the wound edges before heal ng of the quand has occurre! If operation endes actions menting on the damin mas actions of the SUMPLE SHARES ARE USED ADSUMPTION OF THE MOUNT AND the presence of micro-organisms and the holding power of the strength of sutures and the holding power of the accepture of success and the senting proper of critical transfer during from the first week after the operation The process of the first week after the operation The first week tissues amains progress es, and The process of the first week after the operation There is always repair does not begin immediately. There is always a lag period which aries in length according to the Patient's cound tion Ander deal cound tions the patient's cond ton Under deal cond tons into basts begin 1 appear and lay do on their fibrill basts begin 1 appear and lay begins tapidly but a later forty eight h u s Heal ag begins appear and the later of the la since turny cigate of a need of ten days. In slows do n at the end, fa need of ten days. In sions oo n at the end t a neck of ten days an clean cases it I usually complete after fourteen

Meleney and Howes bele e that silk is better enture material than cateful in clean cases. Its use

is associated with less exudation and less likeli hood of infection and there is little or no diminution in its tensile strength. Silk should not be used in in the summer exercises and summer on the used in infected or contaminated cases. The length of times aniected of contaminated cases in elegation is difficult that calgut sutures will resist digestion is difficult. to determine Retention sutures are apt not to hold to accerming the perioneum and has e a tendency to cut the abdominal wall For maintenance of approx mation of the peritoreum and posterior sheath Meleney and Ho, es tecommend a continuous of inferiolect enture of the mattress type is inforced by an in Secure of the metatics type to murcor by an in the property of continuous over and-over state of the property terrupted or communous over any over outside fine chronic categut. They believe that a continuous une curonuc casgat aney per eve enal a continuous and a c of No o chrom c category to greater than the holding or to o curous ceasest to greater than the mount of power of any tissue likely to be sutured with it power of any usual arety to be author with a Larger sizes cause more estudation and more rapid production of the cases in which a trans erec net ion the case in the cases in which a trans erec net ion the case in the case aussiff of a cases in which a transcript including is made wound d sruption is less frequent probably, because there is less danger that omental tags will

pecuanse there is iess usinger that unitering tokes will get bet een the suture lines and there is less tension COLF reports a study of 26 cases of ound rupture among a 750 consecutive laparotom as performed amous 2.750 consecutive saparotom cs personnes at the Mt Spiral Hosy tal New York and 3 cases from the Exercise for the incidence of rupture was 1.2 for sent in modes and one car court in families on the suture 112 per cent in males and 0.75 per cent in females It was highest in the footth and nith decades of le The angelying les od tespons ple for the qi tabt on the understank its on respons the law the or rupt on was a malignant tumor in 35 per cent of the cases was a manghant tumor in 20 per cent of the exacts in 23 per inflammatory disease of the bile passages in 23 per cent a graceological condition such as f bro d 10 per cent acute append cuts in 19 per cent, and some other condition such as a verticul its of the

some other common such as a vector is at the sigmoid streptococcus per tonitis or fe er of unde signious surepurcueus per tonitis or ie er of unoc termined origin in 11 pr cent In 116 ca es of extensions the increase of world distribution as carcanoma the incidence of nound disruption as 2 2 per cent, Colp believes that careful pre-opera tive care of cachectic pat ents may decrease the

Middine inc sions are most apt t rupture. The inc dence of wound disrupt on aridine inc sons are most apr 1 impure and fact that there was no instance of rupture of a midline ep gastric neas no manante or upprate or a mu increase se reveed is nne en gauric neision n ine cases te seekil technique attributed by Colp to the use of a special technique actituded by Logico and all of theme was in for for restended on the country of free ten of the measures make for gastroducdenal ulcer and all of those ma le for gastroducdenal trees and all of the standard of the stemach tensor of the standard of the curcuoma or one sounach and company of one introduction of a single layer of interrupted through introduction of a single layer of interrupted introduc-and through sutures the any braided silk which and enroused surfres I nearly praised survere see in place until the sourcepting of made made made those made m st irrequently used actions were those made parallel with the lines alba through the rectus muscle. The most cmm n approach to the upper abdomers were used as lamburance of the comment and the most of the upper part accomen was vert cat spinting of the upper part of the rectus muscle. The neidence f wound rup or the rectus muscle 1 as neigence 1 woun't the time in this type of incision was 2 2 per cent. I

the lower rectus muscle-splitting incisions it vas o 54 per cent Of 20 cases in which a para-umblical o 34 per cent of 20 cases in which a para-unionear rectus muscle-splitting incision was made, disrup-

In the closure of the abdominal incisions the peritoneum was closed with a continuous suture of tion occurred in 2 chromic catgut, the fascia, by interrupted sutures of chromic catgut, the fascia, by interrupted meaning of chromic catgut, and the skin, by a continuous suture of silk, an interrupted suture of silk or silk-

Disruption occurred between the second and the eleventh days after the operation It seemed to be worm gut, or by pincettes most frequent on the seventh day, and to occur usually after removal of the skin sutures Colp doubts that the removal of the skin sutures had a causal relationship to the disruption, he believes it advisable to leave the skin sutures undisturbed for a longer period of time in the cases of patients with cachevia, weakness, anæmia, disten-

In cases in which wound closure is impossible because of infection, it is probably better to leave the tion, or meteorism entire wound open rather than merely the skin Colp packs the wound and leaves it undisturbed for from ten to twelve days When the pack is removed the granulations are usually so healthy that the Round edges can be approximated with adhesive Healing almost invariably follows procedure was used in 23 cases without any unto-ward results Abdominal binders are probably of

In cases with drainage the incidence of wound value in preventing evisceration rupture was 1 22 per cent, and in cases without

Wound rupture should be suspected when the drainage it was o 84 per cent dressing which has previously been dry suddenly becomes stained with a bloody serous discharge

The treatment preferred by Colp consists of packing the wound or secondary suture of all layers with drainage The tampon method is the procedure of choice in infected cases

Healing requires an average of thirti-seven days In 19 cases in which the tampon method was used the mortality was 32 per cent Of 11 patients traced, 7 subsequently developed a hernia Secondary suture is indicated in clean cases with evisceration but without peritonits Of 10 patients treated by this method, 8 recovered and 2 died. The secondary suture was negrounded with interested through and through performed with interrupted through-and-through heavy silk sutures over a drainage pack. In the 8 cases in which recovery resulted there were no untovard complications. The period of hospitalization

The cause of death as determined by 5 postmortem examinations was diffuse Peritonitis in 4 averaged forty-six days cases and hæmorrhage from the gall-bladder bed with dilatation of the stomach in I case

mortality in the series was about 28 per cent. GRACE reports an analysis of 46 cases of abdominal wound disruption from the First Surgical Division of Bellevue Hospital, New York Protrusion of the meets occurred in 26

The type of incision the viscera occurred in 36

used vas as folloys upper split right rectus, 28 cases, upper split left rectus, 8 cases, median epigastac, 3 cases; lower split rectus, 3 cases, reversed Kammerer, 2 cases, transverse, 1 case and median uprapulic, 1 case Thirty-nine of the 46 disruptions of the 45 tions occurred in upper abdominal incisions. In all cises a continuous suture of chromic catgut was used Silk or silkworm gut was employed only for skin apposition to retention sutures were used

The operation was performed for carcinoma in 10 cases, chronic ulcer of the stomach or duodenum in 8 cases, gall-bladder disease and appendicitis in 7 cases each, stab-v ounds of the abdomen and perforated ulcer of the stomach or duodenum in 3 cases each, chronic intestinal obstruction in 2 cases, and ruptured typhoid ulcer, ruptured spleen, gunshot wound of the abdomen, abscess of the liver, tuberculosis of the peritoneum, and an undiagnosed condition in I case each The postoperative complications actively favoring the disruption were infection and coughing in 17 cases each, vomiting in 9 cases, distention or obstruction and hiccough in 4 cases each, retching at lavage and difficulty in the suturing in 2 cases each, and the patient's getting out of bed and an unknown cause in 3 cases each The largest number of the disruptions occurred on the seventh day I, enty-seven occurred between

The sudden discharge of sanguineous fluid from the seventh and tenth days inclusive the wound is indicative of a ound rupture. The next sign of importance is pain. In 30 of the cases re viewed the disruption was treated by secondary suture and in 16 by strapping or packing or both Secondary suture consisted of through-and-through Strapping with or without packing was used most often in the cases in silkworm-gut or silk sutures which the disruption occurred slowly and when it was discovered, the extruded contents vere already adherent to the deeper wound tissues, also in severely infected wounds In only 2 of the cases requiring secondary suture did the wound fail to heal Both of patients who recovered from the complication the these were controlled by strapping majority developed a postoperative hernia In the 36 cases with protrusion of the viscera there were 15 deaths, a mortality of 41 per cent, and in the 10 cases without protrusion of the viscera there were The total 3 deaths, a mortality of 30 per cent mortality was 39 per cent In 28 cases treated by secondary suture there were 11 deaths, and in 18 cases treated by strapping and packing there were

WHITE reports on 30 cases of disruption of abdominal ounds in the Roosevelt Hospital, New York, in which there was a mortality of 53 per cent Thirteen of the 30 patients were over feturities and a more cuffering from 7 deaths fifty-five years of age, and 5 were suffering from malignant disease A median incision was made in 2 cases, muscle retraction was done in 6, and the fibers of the rectus muscle were split in 22 split rectus incision was made in more than 75 per cent of the cases Cough was an important factor in 6 cases and distention in 3 lafection was a resent in 8 A discharge of Floody fluid from the resent in 8 A discharge of Floody fluid from the second is andrease of renders. present in a A discharge of trooty min from the reound is indicative of rupture. The amount discharged by the quite c n iderable houses both of control to making of the control to the co casagea may or quite c n locratic Inc rapture usually occurs insid ously. In the closure both of usually occurs insid ously in the consure both of first to ounds in doubtful cases and of disrupted irean i ounds in dou thu cases an i of disrupted wounds through and through suteress he e-proved most satisfactory. Whate warns against planing too most satisfactory when the reference of the case o most satisfactory where warns against placing too much rebance on catgut. If there is much tension playing all feurion satisfies spony pe blaced through branco sus tension surures snown be praced intower the entire abdominal wall. Separation of the wound the chine abbunding wan between the eighth and edges is most apt to occur between the eighth and edges is most apt to occur between the eighth and ternh days. The predisjons mig factors are sonly of decreptude manganney jaundice and a Peculiar decreptude manganney jaundice and a Peculiar body manganney audice and a Peculiar body manganney are the second of the peculiar that the peculiar and the peculiar and the peculiar and the peculiar peculiar and the pe

Heyo reports that of 2:45 laparotomies per formed by him rupture of the wound occurred in 4 tormen my time tables of the monad occurred to 4 than usual or in 1 of 530 min 1 death of 1 despital New York performed at the Postgraduate Hospital New York he 1912 disruption occurred in 4 or 1 in 250 with 1

Three types of wounds may result in disruption in 1932 disruption occurred in 4 death a mortality of 25 per cent Three types or wounds may result in usuappoor.
The first is the wound in which healing apparently. The first is the wound in which neating apparently occurs normally but rupture occurs following removal of the section of the second is the second in the se moval of the surface 100 second is the wound in which a portion of the small intestine works its way which a portion of the small interesting works in a through a gap in the peritoneal suture line torough a gap in the Pertoness source inc. in cases of such wounds vorming and abdominal d.s. cases of such wounds vomiting and andominat a stention are more marked than usual. The wound centron are more mersen than usual the witness that the of moning in which grands on is but to include the contract of the surface when the surface we are occit is the wound which spows endence of jump occur is the wound which shows evidence of inad equate healing. The skin edges are expected existing the state of the stat tous and red anis condition is especially up co-Jaundies in the majority of the cases reviewed jaunaice in the majority of the cases reviewed and non absorbable retention sutures were used and and absorbable retention attracts the tenth and great and applications. Accordance have

ntreentu asys Heyd bel eyes that the incidence of yound disruption can become the memorite of the confidence o tion can probably be decreased by (1) complete hemostas s in all abdominal nounds (2) relatation fourteenth days of the appointing well during the closure of ap dominal wonings (3) the and quice of nuque fixings or the anonyminal wan online the closure of an comman younus (3) (he avo cance of undue trauma (4) the chimination of dead space (5) an absolutely 147 MO CHARLES VI UCAU SPACE (5) AN ADMINISTRAÇÃO ASSENT CHECKAIQUE AND (6) ACCUTATE COMPANION OF perstoneum

# GASTRO INTESTINAL TRACT

## RI ers A B Clini al Consideration of th Etiology ers & n Juni at Consideration of the Poly in 97 of Pept c Ulc r A h I ( Med 934 in 97

An attempt has been made to apply some of the hy animpi cas need made to apply some or ne of ny pouceses acroniced to explain the causation of people uleer to the clinical problems of ulcer a man. preptic uncer to the children proptients of the result of several hall probability pept, where is the result of several in all probability pept clucer is the result of several interacting and variable factors. Physiologists have interacting and variable factors. interacting and variable factors envisionoges as we demonstrated that the aggress we action of und luted fince can broduce after party and ag botentialities lince can produce offer the more effectively when it comes at produces uncer the giote enectively when it comes into contact with t sales unaccustomed and un

protected by nature to receive it. The author sug protected by matthe to receive it are author suggested that this factor of apgression may be more kesis That this factor of akkiession may be more likel to cause diceration when the resistance of the HERE W LAUNE UICETS ON WHEN (HE TESISTANCE OF THE HISTORY TO WHEN THE STREET OF THE STREET OF THE HISTORY TO WHEN THE STREET OF THE STREET O tissues exposed is in some no) towered by trauma. Thus on infects I into tinal wall or mucoso injured by mechanic lor ch mical critants might succumb and disintegrate when a membrane the a normal and disintegrate when a membrane intact. Sysprotecting mechanism would remain intact. Sysfemic factors if conduct e to the diminution of tenic factors il conduct e to the audituation of resistance of cookers or capsule of the aggression longed or persistent accentuation of the aggression ionged or persistent accentuation of the agricssion factor of the acid chyme might increase the ability factor of the acid cayine might increase the, aumy to the development of ulcer and recurrence in such There seems no doubt that the factors in values appears no doubt that the factors in the formation of ulcer vary in d flerent persons at different times Consequently, every patient presents problems requiring careful study patient presents prooieins requiring careria study Such a study should reveal the particular factor or computation of factors which will optain in each case and correction of these factors should be expected to result satisfactorily when applied in the treat

The author reports a series of ten cases ment of ulcer

Abel A L Acetylcholine in Paralytic II us La

The author states that in fifty cases of normal convalescence from a laparotomy he used activi ho convacescence from a representative treatment start me rounnery in the postoperative treatment start in my with 0 1 mgm thirty six hours after the operat on ing with a image will be a dose every six hours until flatus of and repeating in a dose every six abouts until natus of free were passed without an enema. This result is obtained in many entirely untreated cases in from

x to tweeve nours In numerous cases of general periton its in which in numerous cases or general person us in waited the impression. that the nostoperati e course was more is orable six to twelve hours than it would have been without such treatment thousever he believes that acetylcholme must be used in many more cases before it can be recomused in many muce the postoperative treatment of every mended for the postoperative treatment

ase in which laparotomy s done. In se eral cases in which there was doubt as to menned for the hospitalise to an se crai cases in which there was done to mechanical or whether the condition was due to mechanical or whether the condition was use to increasing or paralytic obstruction Abel gave o 1 gm of acetylcho paralytic construction Auer Save o 4 Bin or secrymony have hourly for six doses. By this treatment operat on was frequently avo ded. In cases of organic Opstruction no nitoward effects were brogness obstruction to the state of the gas bams, and parests of the powels are cons desply has yours and parens or the powers are consucratly benefited by the administration of aretylcheline by neurones by one autimustration of acety insoine or intramuscular injection. In paralytic leas actylcio line abbears to pe almost sheetign in effecting a crist

Martinotti G. The Pathogenesis and Clin co rtinotti G The Pathogeness and Cincol Toentgenological Symptomiza logy of Dollcho roentgenoiogkest Symptomst lody of Dollcho ellon (Spill progress paulis sin mat les lim progress progress section (Spill progress progress

This art cle is based on a careful study of a num Luis art cie is pased on a careful away of a min-ber of cases of dolichocolon which the author observed personally The term "dolichocolon" means an increase in the length of the colon. This condition is most often confused with megacolon. Further complicating its recognition is the difficulty in establishing the limits between normal variations and beginning dolichocolon. The author outlines a technique for roentgenological examination which he considers necessary to establish the diagnosis

definitely

Total dolichocolon is rare As a rule the lengthening occurs only in segments of the colon Many variations occur, but the most common is the socalled segmentary dolichocolon in which only one segment is lengthened and the remainder of the colon is of normal length. In compensatory segmentary dolichocolon there is an increase in the length of one loop, but the adjoining loops are smaller than normal so that the total length of the colon is normal In a certain number of cases there is an associated megacolon, in other words, a megadolichocolon The author believes that when the two conditions co-exist the dolichocolon was primary The mechanism of dilatation depends principally on stenosis of position (kinking) and segmentary reflex atonia To make the diagnosis of dolichocolon in such cases the pre-existence of the lengthening must be definitely proved. The various types of dolichocolon encountered and the distinctive roentgenological findings in each type are described in great detail

The etiological theories are discussed. To the anatomical or congenital and the physiopathological theories the author adds the theory of mixed causes, a combination of the two. According to the latter, an anatomical anomaly is the basis on which a pathological process acts to lead eventually to an accentuation or increase of the congenital malformation. True dolichocolon is congenital. The condition has

been demonstrated in infants

The author discusses the symptoms in detail. In the true congenital type of case there are few if any symptoms unless complications develop. In the type of case in which the physiopathological element predominates there may be many varied and vague symptoms. In any event there is no clear-cut clinical picture, and as a rule the symptoms are those occurring in any other colonic condition. In many cases dolichocolon is discovered accidentally in the course of X-ray examination.

In conclusion the author states that while he believes dolichocolon is of congenital origin, the increase in the length of the colon may be further increased by functional abnormalities due to mechanical or nervous factors

T Banford Jones, M D

Patterson, D. C. Appendices Epiploicæ and Their Surgical Significance, with a Report of Three Cases New England J. Med., 1933, cciv, 1255

Bland-Sutton describes appendices epiploicæ as localized, pedunculated overgrowths of subserous fat directly continuous with the fat in the mesentery

They may have a protective function similar to that of the omentum, but their chief function is unknown They may be affected by (1) inflammatory changes, (2) torsion of the pedicle, (3) calcification and the formation of loose bodies, and (4) incarceration in a hernial sac with or without torsion. The diagnosis of these conditions is possible only at operation. The symptoms may simulate those of almost any abdominal disease, but are especially apt to suggest diverticulitis. In some of the cases in which the diseased appendage was on the sigmoid, appendicitis was suspected.

The author thinks that disease of the appendices epiploicæ is more frequent than is generally believed, and that the possibility of its presence should always be borne in mind. He is of the opinion that it may be responsible for some of the abdominal disturbances in which recovery occurs without operation of diagnosis. It should be considered when exploration of the abdomen fails to reveal any of the diseases usually responsible for acute abdominal symptoms.

Of the three cases reported by Patterson, one was a case of acute inflammation, one of torsion of the pedicle found during hysterectomy, and one of incarceration in the sac of a femoral hernia

CLARENCE C REED, M D

Gundel, M, and Mayer, F Statistics and Frequency of Appendicitis (Ueber die Statistik und Haeufigkeit der Appendicitis) Ergebn d Chir, 1933, xxvi, 490

Appendicitis is steadily increasing in frequency in all countries Reports in the literature differ as to the incidence of the condition in males and females The mortality is inversely proportional to the incidence of the disease in the various age groups Appendicitis is most frequent between the ages of eleven and thirty years The mortality is highest among infants, a fact explained, in part, by the difficulties of diagnosis Chronic appendicitis occurs more frequently in women than in men Acute appendicitis during pregnancy is very dangerous, its mortality ranging from 30 to 40 per cent in contrast to the general mortality of from 5 to 10 per cent Women of the child-bearing age who have had one attack should be urgently advised to have an interval operation before pregnancy occurs

According to Prinzing's statistics, the mortality is highest in the higher social groups. It varies greatly in different countries. In spite of improvement in the education of physicians, operative technique, and transportation facilities, the absolute mortality has increased everywhere. In Spain and Italy the mortality is lower than in Sweden and Scotland. Switzerland has the highest mortality. In all countries and at all ages the mortality of males is greater than the mortality of females.

The authors discuss appendicitis in Germany in more detail. As compared with the prewar period, there has been a 3-fold increase in the morbidity of the condition. During the war the morbidity was sharply decreased in all countries. In spite of an

the morbidity is higher in temales than in males. The morbidity and mortality vary in the different proy morbidity and nortainty act in the mutatity is highest in Ba nices and states , in e mortancy ; mignest in Da and but even there it is considerably lower than in Scotland and S eden. Fatal ties are more frequent occusing and a segen framities are more frequent in clues than in rural districts. Ho ever no con in cures coau in rural costricts ino ever no conclusions may be drawn from this fact as most of the customs may be usen union in a sace as most or the satisfacts from rural districts are operated upon in etty hospital. While the relative f gures for age city hospital While the relative 1 gures for age groups show that the mortality is highest after the age of title seats the appointe tentes, pcg are pased on the greatest incidence of the dease show hattishigheithet centhe ages of went; and thirty vests. In Germany the cost of appendicuts to the

state and society is now estimated at 30 000 000 naths annually and 1 increasing arks annually and 1 increasing tables
The article contains numerous tables

De Gregorio E Contributions on Twenty One Cas 5 or Rectal Sten 1—The Ano etal Syst image of Fourier (Ap it 1 has sobject of Fo Syphicoma of routiner (April 1 nes sobe 21 of cas of esteno 3 f t 1-3 filoma in 1 764 frum e) Pref de la di Madid 1933 x 1 764 frum e) Pref de la di

In all of the twenty one cases reported by the author there was a history of the passage of micopus and plood at some time breatons to the development and onto at some time the vious in the descripment of the stenosis. De Gregorio says that this may be of the stenosis are viegotio says that this may be an indication of the beginning of the disease. This an indication of the negliging of the click with regard to lour patients with a post; e Frei test who had ruid constitution byperplas so for the rectal walls and hardened runcesal folds without second head of the rectal runcesal folds without second head of the rectal runcesal folds without second head of the rectal runces and head of the rectal runcesal folds without second runcesal folds with a post of the runcesa and national minuses without scenosis as says that later observations all be of interest to says that fater quarryat ons in the part of the part o of the cases tensewed the stellos a develobed after a meriner areinals described after a tense whether the stelloss and the stelloss and the stelloss are not to me. or the cases reviewed the arcting a never people area as pel from the rectum but there was no adenopathy. In another case our nece was no apendary in amener case tech s and an annual aleman are confer and above formation of an abscess in the intestine 2 cm above ionmation of an assected in the faction of the anus and its dra nage through the rectum. One the anny and the steposts was that of a own whose husband had been treated for typ cal lymphogranu

All of the cases reviewed were those of female lomatos s two ) ears prev ousis and thenth tes ted bo t elt to D Melcos sectue and enemy rea teo po en to those obtained by These results were contrary to those obtained by most other in estig tors who have found the F et most other in estig tors who have tound the retetates and the Ito Reenst erns to t neg twe as positive and the sto seems of Fourther is character. The an rectal syphiloma of Fourther is character. terized by thickening of the walls of the rectum near the spinotter c tee on with I as of elasticity and terries of interesting or the wars of the tecrito near the abuncter creation with 1 so or evertise some reduction of the lumen or the presence of ulcerat ons reduction of the namen or the presence of uncertaints of the name and under other ation or wars writen the wases onto under or servation, some degree ( stenosis is usually found as the symp

toms in the initial stage are so mild that they are toms in the initial stage are so muc that they are distributed. The lesion sometimes develops rapidly custegarden the author's cases it de eloped in two or

three ) ears

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tubular lired types are frequent. The rettal museus may show strawberry tegretators from the bleed easily 11 may be conserted and red granth museum to the permanal region with the permanal region of the per

e common Among the factors that ha e been held response ple for the caudition are 21 byth & chauctoid infec me 101 the caudition are 35 bin 3 cuaucton inte are common nicoses l'hubpogrannjomatosis inginiale suq noncich nacinnsi konottucta innettrioria

augususus There is much clinical experimental biological and anatomical evidence indicating that the conditraumatism

and anatomical exocute indicating may the co Chnical e ridence Rectifis and stenos s of the author summatives this as follows connect e receive Actions and actions so the received have developed follows & sexual relations

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a tebrile reaction in cases of hymphograminona tons pus obtained from fistulæ of persons with rectal stenosis causes a pos tive intradernal react of enosis causes a pos tive intrauerina teat un Anatomical es idence. The pathol gical changes an hyperplastic condylomats of the anal folds and in ayperplastic countylomats of the anal le

The author believes that the cau e will be dis to ered only by determining whether the rectal and co ered only by determining whether the sector and retrorectal gland lesions are the same pathologically retrorectal grand resions are the same pathologically as those of lymphogranulomato is The lymphasic as those of lymphogrammona is in symphotes in the region is of great importance in the unection of the syndrome. The primary infection production of the syndrome the primary intection of the lymph glands usually those of Gerota ac. or the sympon grands usually those or cerota ac counts for the location of the stemulas at the et counts for the location of the stemulas at the et counts these glands. By retrograde lymphatic dramage inese gianus s) recrograve impinate orainage from these glands the infection extends to the submicosa and micosa of the rectum causing stepos s The right of the infection may be gential and or the right of the interction may be sential and or rectal When it is genital inguinal adentits occurs rectai. Uhen it is genital inguinal agenita occurs and this infection extends to the agent and this infection extends to the agent and this infection extends to the agent agent occurs to the agent occurs to Negoties when the origin is anist of rectast integrals and perirectal lymph plands may be in of ed first and perirectal tymph giands may be in of ed first or may be the only Glands in strongs will result uses a an anogenital syndrome with a tensis all result and a strong of the control of t

was an anogenias syndione with stephas and rectum will and the second simple stenos s of the rectum will and the second simple stenos s of the rectum will be a second and in the second simple stenos s of the rectum will develop froyded the infection remains in the pen ceal imposaics. The author is of the opinion that in many rates the chological agent may be the agent responsible rectal lymphatics

for lymphogranulomatosis inguinale, but that syphilis and chancroid infections may also play a part

W H Martinez, M D

Ladd, W. E., and Gross, R. E. Congenital Malformation of the Anus and Rectum. Am. J. Surg., 1934, Nat., 167

This report is based on a careful study of 162 cases of anal and rectal abnormalities

Following a discussion of the embryology of the anorectal region the authors present their own classification of anorectal anomalies which is based on clinical studies and is of value in determining the form of treatment and the prognosis (1) stenosis of the anus, (2) membranous obstruction of the anus, (3) imperforate anus, but with separation of the rectum from the anus, and (4) anus and anal canal normal, but with separation of the rectum from the anal pouch The external anal sphincter is present in all 4 types In 52 per cent of the cases reviewed fistulæ of various types were present

The symptoms and physical signs in these cases are essentially those of complete or partial intestinal obstruction In the reviewed cases of imperforate anus and rectal atresia there was complete obstruction whereas in the cases of anal stenosis and those with fistulæ the evidence of intestinal obstruction was less marked In all cases careful examination of the anus and rectum yielded sufficient information for diagnosis and classification of the case X-ray examination with the infant in the inverted position was a valuable aid in determining the distal extent of the rectal pouch in cases of imperforate anus and rectal atresia. In the first fifteen or twenty hours of life even this method is not entirely reliable as some time is required for gas to reach the lower intestinal tract

The treatment varied with the type of case, but the essential feature, of course, was the establishment of continuity of epithelium between the rectum and skin to prevent scar formation with constriction The external sphincter was always used to provide adequate control In the cases of stenosis repeated dilatation was usually sufficient. When the canal could not be dilated, it was excised and the rectal mucosa was brought down In cases of membranous imperforate anus a cruciate incision followed by dilatations was sufficient. The cases of Groups 3 and 4 presented the greatest problems majority of these were operated upon by the perineal approach The rectum in such cases was brought down through the external sphincter and the mucosa sutured to the skin When the rectal pouch was not long enough to permit this, colostomy was performed However the perineal operation was possible in the majority of the cases-86 per cent of those of Group 3 and 66 per cent of those of Group 4 When fistulæ were present it was found to be expedient to vary treatment according to the location of the fistulæ The lower ones (rectoperineal, rectofossa navicularis, and rectovaginal) were relatively easy to close when the rectal abnormality

was corrected during the first few days of life higher ones (recto-urethral and rectovesical) were difficult to reach through a perineal incision. Consequently it was found best to delay treatment of these until the patient attained the age of eight or nine years.

In the total number of cases there were 43 deaths Twelve were directly attributable to associated congenital abnormalities. This leaves a mortality rate of approximately 19 per cent for the anorectal abnormalities and their complications. As might be expected, the mortality was lowest (9 5 per cent) in the cases of Group 1 and highest (61 6 per cent) in those of Group 4. T Banford Jones, M.D.

## LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Schiassi, B Calculosis of the Gall Bladder (La calculose de la vésicule bihaire) J de chir, 1934, Min. 8

Since cholecystectomy was first performed by Langenbeck in 1882, it has become a standard operation which is carried out in thousands of cases of cholelithiasis yearly. However, regardless of its popularity, experience has gradually demonstrated that it is currently undertaken with much more optimism than is justified by its results. According to one authority, complications occur in 50 per cent of the cases in which it is done

For many years the author has been reluctant to remove the gall bladder, and since 1900 he has been an active opponent of cholecystectomy as a routine measure. Whenever possible he has limited operation for choleithiasis to evacuation of the gall bladder followed by complete closure, believing that the gall-bladder possesses important functions and therefore should be conserved.

When the sphincter of Oddi opposes the flow of bile into the duodenum the gall bladder acts passively as a reservoir. While the bile remains in the gall bladder, the gall bladder concentrates it 5 times by removing part of its water content. By active contraction (the claims of Winklestein notwithstanding) the gall bladder empties its contents into the duodenum at the moment when the chyme is most abundant.

Following cholecystectomy the sphincter of Oddi loses its tonicity and the flow of bile into the duodenum becomes continuous or the tonus of the sphincter is retained and the common duct and the hepatic ducts with their first branches become dilated and assume the function of the gall bladder

The pathological changes following cholecystectomy include progressive destruction of the epithelium and fibrosis of the walls of the larger bile ducts, conditions favoring infection of the biliary tract, an increase in intestinal putrefaction and in the virulence of the intestinal flora, reduction of pancreatic secretion by at least two-thirds (Iverson), and interference with the digestion of fat These are the intrinsic effects of the operation Possible

extrassic effects include pancreatitis pericholedochal extrinsic enects include panetraturs pericoletic with ad adhesions periduodentis and pericolitis with ad agnesions permuodenitis and pericoutis with ad hesions and stenosis and biliary fistula Recause of nesums and stenosis and umary natura herause of these complications Rosenthal

one frequency of onese computations. Resenting said Never promise a patient about to undergo cholecystectomy that he will not suffer after the operation the mortality from peritoritis harmor than shock and hepsile degeneration after the The hepatic obetation is not inconsiderable

nauges are especially important Schiassi performs cholecystectomy only when the chankes are especially important OCUMANDA PETFORMS CHARCESTACETOMY ONLY WHEN THE vaus of the gall bladder are altered to buch a degree that the function of the organ as a contractile reser that the concion of the origin as a contractile reservoir 1 senously insited. He states that in cases in voir 1 seriously imited He states that in cases in which the gall bladder wall is only moderately which the gall bladder wan 15 only moderately the mucosa 16 only slightly ulcerated incheired the mucosa is only sugnly uncrated and the serosa is smooth and pale cholecystostomy and the serosa is smooth and pale consequences only is sufficient. When the serosa is smooth the other is sumcient when the serosa is smooth the outer tunics are bittle thickened and the mucosa is free tunics are neue thickened and the inucosa is tree from ulcerations cholecystendists is the operation This consists in liberation of the gall of choice this consists in interation of the calcul followed by unauter and exacting of the calcul follower by Loreta complete cooure at was orst performed by loved of Bologue in 1875. The author shows the technique by illustrations. He and his colleagues have oboy investrations are and his conceasures gave ob-tained satisfactory results from cholecystendysis

Lauwers E The Surgical Treatment of Cane rol wers E The Surgical Treatment of Caner of the Ampulla of Vater (Trut m tch russical du caneer attein) I deck / 1933 zin 833 in 314 cases

Of the cancers of the small intestine those of the duodenam are the most common They usually auouenum are the most common they usually accupy the ampulla of Vater and may arise from the

ampulla itself the duodenal mucosa the duct of

Depending upon the origin of the tumor the first ampuna itself the quodenal moores result of cancer of the ampulla is obstruction to the result of cancer of the anipulus as obstruction to the flow of bile or the pancreatic secretion. The thickness the however the initial symptom is always scients. The however the initial symptom is always the sum of the control of t however the initial symptom is always acterus. The letterus may be slight and intermittent but usually icierus may ue augit ann interintiem uu naasiy is continuous and becomes progressively more in When there is complete biliary obstruction tense when there is compare union outstream, the faces are day colored and heavily charged with the tacces are cray counted and nearly charged with fat and proteins and the urine is highly pigmented fat and proteins and the urine is highly pigmented. when there is a complicating bil ary infection epi when there is a complicating on ary infection epi-gastric pain and fever occur. Eventually hepatic gastine pain and rever occur twentuary nepaute degeneration and toxic nephritis detelop and the pa degeneration and topic repaired your ting and deepening them to deepen the deepening and the pa

Physical examinat on reveals no tumor. The liver s large and unless cholehthasis complicates the

the the gam product is quarted the absence of a cholecystography shows only the absence of a is said the gall bladder is dilated cholecystography shows only (no absence of a gall bladder shadow Roenigen examination of the gastro intest nal tract may reveal hyperperstalass in the dodgenom and occasionally a small defect u in the quouenum and occasionary a sensu gener in the inner border of the shadow of the second port on e times worder of the shadow or the second port on Analysis of the chodenal contents and of the faces

or placed is usually negative. In the differential d agnes 5, stone in the c. mmon for blood is usually negative duct chronic bancreatifis and carcinoma of the pan

creas must be ruled out. In cases of stone in the common duct pain precedes the leterus and the ic terus is intermittent. In caronic pancreatitis and caronic pancreatitis and The treatment of cancer of the ampulla may be and treatment of cancer of the ampula may be palliative or rad cal Palliative operation consists of

paluative or rad cal Paluative operation consists of his internal or external drainage. The results of both internal or external orainage the results of both types of dramage are poor According to Gosset the types of drainage are poor Accurating to Goosef the mortality of internal drainage is 75 per cent and that of external drainage 70 per cent. The radical opera of external drainage 70 per cent. of external grainage 70 per cent The radical opera-tion cons sts of removal of the tumor. This was first of external dramage 70 per cent tion cons size of removal of the tumor This was nist performed by Halstead in 1898. The patient died performed by Haistead in 1893 - 10e patient died seven months later from recurrence. In 1900 Mayo seven months later from recurrence and applied the case of a patient who survived the reported the case of the cas SIXTY four cases, are on record. In fifty seven the sixty tour cases are on record. In fifty-one the operation was done in one stage. In fifty-one the operation was none in one stage in nity-one the tumor was removed by the transduodenal route in tumor was removed by the transusporenal route in two two by the retroduced in two instances a seg through the common one. In two messaces a segment of the duodenum was resected. Among the ment of the duodenum was reserted Among the seven two stage operations cholecystostomy was seven two stage operations chorecystosomy was performed twice dramage of the common duct bettormen twice distingle of the fumes excision twice currect storenterusions farce times and en-

of the tumor by audoenotomy live times and exsoutenum truce The value of the radical operation depends upon

the value of the fumor Tumors originating in the terminal portion of the common duct in the duct of duodenum twice Wirsung or in the duodenal microsa possess the winsung or in the auduena mucoa possess are degree of malignancy common to cancers of the in degree of manignancy common to cancers of the neteaune and metastasize to the regardat symph nones True tumors of the ampulla remain strictly localized

r long perious
The difficulties of a radical operation are much the a mountes of a rad cat operation are much less formidable than is generally supposed Whether for long periods

rest tormusable than 18 generally supposed the operat on 18 performed in one of the flow of his first step should be diversion of the flow of his first step should be diversion of the flow of his first step should be diversion of the flow of his first step should be diversion. 1 rst step snouta be diversion of the flow of the External drainage is to be condemned. For internal externat grainage is to be condemned for endersysted gramage a choice may be made between choiceystonic choiceystenterostomy and choicedocho Eastwormy choiceystenterostomy and endedocoo enterostomy Cholecystogastrostomy is undesirable. enterostomy Cholecystogastrostomy is undestrained because the Seatric justs calcularly distraction seems of the Seatric justs calcularly distraction seems of the Seatric justs can seem against once the Seatric justs of the Seatric justs of the Seatric justs of the Seatric just of the Seatric just of the American Seatric just of the American Seatric just of the Sea ph Colled's method there is no tellux of the mo by Louey's method there is no renux of the duod densi contents. When the gall bladder is dilated an ornal controls. When the gall bladder is dulated an anastomosis with the spunum is press of Morrofit floor of spunum or the y anastomosis of spunum or the y anastomosis of Assertand to a second of the second of t noop of lejunum or the x kinastonioses, should be used. The latter eliminates the danger of

Depending upon the patient's general condition the second stage of the operation removal of the time second stage of the operation removes of the tumor may be performed immediately or delayed for two weeks. The in tal exploration to establish the tumor was a few to the tumor of tu anmocholitis for two weeks the tumor must be direct through an the presence of the tumor must be direct. unsystemic of the duodenum. The tumor is often no. larger than a pea and may be overlooked it only pal larger than a pea and may be overlooked it only pail open of the duodenum is done of the commondant of the mable or mobile sounding of the commondant of the common about a sounding of the duodenum about a sound to some also have been a sound to some of the common about a sound to some of the duodenum about a sound to sound to some of the duodenum about a sound to soun often Huade or morne sounding of the common duction may also lead to error. The duodenum should be

mobilized and then opened by an incision along the right border. The tumor has the appearance of a small cauliflower growth or an ulcer. When it is a cauliflower growth it has arisen in the ampulla and is sharply outlined. When it suggests an ulcer it is a malignant intestinal cancer and the surrounding mucosa is indurated. To excise the ampulla a circular incision should be made. Usually this need be no deeper than the submucosa. If the muscularis is included, the pancreatic duct must be re-implanted in the duodenum and the common duct ligated at its origin.

Resection of the duodenum with or without the head of the pancreas is a difficult and shocking operation. Moreover, for cancer of the ampulla it is more extensive than necessary, and for cancer extending beyond the limits of the ampulla it falls short of a rational operation for malignancy. Coffey has systematized the technique, but the procedure has been attempted only five times.

Radium therapy has apparently been employed

only rarely In one case, Abell (1924) fixed the radium in close contact with the tumor through a

duodenal incision and for removal attached it to a heavy thread previously introduced by mouth Handley (unpublished case) introduced needles into the neoplastic mass by the retroperitoneal route and brought the threads to which they were attached out of the abdomen through a large drain Because of the marked ædema produced by the radium and the menace of complete duodenal obstruction, a preliminary gastro-enterostomy is essential

The author gives the histories of two personal cases Both patients were operated upon in one stage Internal drainage of the bile was established by a Y cholecystojejunostomy. A generous loop of the upper end of the jejunum was sectioned and the lower end passed through the transverse mesocolon and implanted in the gall bladder. The upper end was anastomosed to the side of the lower segment of the loop, end to side. In both cases the tumor was small and could be excised by an incision of the mucosa and submucosa alone. When seen respectively nine and forty-six months after the operation, the patients were in good health

ALBERT F DE GROAT, M D

## GYNECOLOGY

#### UTERUS

Irradiation in the Treatment of Fibromyoma of the Uterus Pfahler G E and lastine J H

The authors belie e that irradiation is the treat ment of choice for (1) all cases of fibromyoma in women near or past the menopause in which the women near or past the menopause in which the tumor extends no farther than midway between the symphysis and umbilicus is not undergoing degen sympaysis and uninincus is not unucressing uegen eration and is not causing intolerable pressure symp eration and is not causing intoterable pressure symptoms (2) all cases of fibromyoma in omen with rouns (4) an cases of notionyones in outer with marked organic heart disease d abetes nephritis pulmonary tuberculosis or other constitutional con pulmonary tunerculosis or other constitutional condition, hich would contra indicate surgical removal and (3) all cases of large fibroids in which immediate

anu (3) an Cases of large motions in anoma operation is contra indicated by anomia it is contra indicated by (i) mal grancy of the uteus or adnexa (2) tumor masses e tend ng far ther than midway to the umbilicus unless operation ther than minway to the unionicus uniess operation is refused or there as a definite contra indication to is recused or there as a new me comma no service of for a operation (in which case tradiation s justifed for a operation (in which case traduction s justified for sub-fibrom) on a of any size) (3) pedunculated or subnurous tumors (the results in the treatment of such tumors are less favorable as the bleed ng often con tumors are less lavorable as the officer his officer continues after the tradiation) (4) large fibromy omata unues arice the transation, (4) targe morally mans which are producing distressing pressure symptoms and the control of the co and Airly to itagistion too slowly and (2) upto

and yield to tribulation too books? and (), note myomata which have undergone cystic degeneration In the cases of young women with the desire for in the cases of young authen will the desire of and the possibility of pregnancy myomectomy is or are gangrenous and the prossumity of picknamy injunctioning the treatment of choice. If operat on is refused or if the creatment or choice in operation is reused or it myomectomy is impossible treatment by irradiation myomectomy is impossible treatment by irratiation is justified. Care must be taken to protect the

raries. The advantages of roentgen therapy are sum 1 Roentgen 12) 3 are almost universally available ovaries They are more useful than radium as they marized as follors

2 trey are more direct and homogeneous effect on Roentgen therapy can usually be appl ed with produce a more uncer and nomones the tumor as well as on the ovaries

out seriously interfering with the patient's occu

ariou.

4 It is less expensive as hospital costs are avoided The effect is produced more gradually than by Pation

peration or radium irradiation 6 It eliminates nervous shock as yell as any operation or radium irradiation objection to intra uterine applications Lit broduces no canalic action on the endo-

The authors use 200 kv 4 ma a filter of 0.5 mm metrium

of copper and a d stance of so cm. In cases i small of copper and a distance of 30 cm and 10 copper and a distance of 30 cm and 10 copper one through each sacrosciatic notch the central rays

being directed through the uterus. If the tumor is very large more portals must be employed and very rarge more possess must be campaged and great care must be taken to prevent fat necrosis from cross fre on the subcutaneous tissue. As a rule the authors gue so per cent doses serially through the authors give 50 per cent doses serially through each of the three fields until 100 per cent is g. en each of the three news until 100 per cent is great through each field. In cases of large tumors, twice this amount is necessary Because of the danger of this amount is necessary necessed and cross fire fair neurosis. tal nections note is tetangreetasis and tross nee effects on the subcutaneous tissue near the surface the authors avoid grang more than a total of 250

per cent through any abdominal field With regard to radium therapy the authors state that as a patient may have both a fibro d and a car choms of the body of the uterus they perform a dilatation and cureftage before introducing the If the pathologist's report sho vs malig race um is the pathonogest a report source mane, the rad um is left to place for a longer period of time. In cases of small foroids a single application of time.

of time in cases of small; bloom 4 s byte sign at ton of radium is usually sufficient. A poly por endo cervicits associated with the fibroid will also be treated successfully by this single procedure, Ra dium usually causes cessation of the hemoribage The authors use their own applicator which is

and authors use their own approach; which is curved like a uterine sound and will accommodate two or three 50-mgm capsules. The radium is screened with 1 of 2 mm of platinum and 0.5 mm of hard rubber or aluminum and is left in place for from twenty four to forty eight hours depending upon the cond ton present. The vagina is well upon the cond non present the waging is set packed both to keep the applicator in place and to paracu with or recy the application in phase entry of displace the bladder and rectum. In cases of large district the manuer and recursion to a support the surface the surface fibroids and cases of malignant disease the authors

norous and cases of mangiant diseast therapy used both radium and deep roentgen therapy

ADNEXAL AND PERIUTERINE CONDITIONS Failure in

ovits W H and Kobak A 4 Fauure III Rubovits W H and Kobak A 1 Two cases in which the Madlener tubal stempra

tion was followed by pregnancy were studed by uon was junionen uy pregnancy were suu en or serial sections Each case represented a different manner of restoration of the function of the tubes manner or resuration or the students of the appeared to have recovered its patency by an endosalpingous whereby an approximation of the tubes shunted the loop of crushing and ligation other tube recovered its function because the less ounce tune recurreren its junction occan c ture is so ture cut through one loop and encircled the other

In two cases X ray examination showed I plodo portion with little constriction passing through the port on of the tube operated passing inrough the port on of the abdom nal cavity

on it ut a free spill into the audom has cavify
The authors c include that the results of the Mad lener operation must be checked by lipiodol suali

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granulosa epithelium and demonstrate that women in the child bearing age become normal after extir pation of the tumor

Like others the author has found granulosa car cinomata highly radiosensitive Partially extirpated tumors have been treated successfully by 's ray

irradiation

Many previous reports concerning the radio sensitivity of malignant overian tumors are worth less because of their lack of histological data. All reports of cures of ovarian immors by irradiation should include a detailed description of the histological indungs. HANS O NECKANY (G)

#### MISCELLANEOUS

#### Grigorie a A P Morosofi A N and Serdukoff M G The influence of Opaque and Caustic Substances on the Organs and Tissues of the Lesser Peirla An Experimental Study (Sur

Lesser Peirls An Experimental Study (Sur liablence des substances paques t caust qu's sur les organes et tissus du petit bass a Ét de exp ri m ntale) Gy é t bit 133 xxviii p

Hysterosalpragography as employed to determine (i) the co.d. tion of the uternal cavity (2) the relations between the cervas and body of the uterns (2) the reled of the mucoss and its condition (4) the presence of submucous tumors and polygon in the uternal cavity (3) the presence of abstract uterns of different types (6) the presence of abstract uterns of different types (6) the presence of abstract (7) the presence of a start a uterns pregnancy (8) the presence of a start a uterns pregnancy (8) the presence of uterns epening parts in occtain terms longical cases (3) the presence of obstruction and country into of the fallopian tubes and (10) the depth and topography of the attificial vagna formed by the operations of Baldwin and M in

The various opaque ubstances used differ in their trintaing effect on the tissues of the gential organs. Those most commonly employed are solution broaded to the solution to the solution broaded to the solution broaded. In order to study the effect of these substances on the tissues more carefully the authors carried out a series of their to regressments on dogs untecting the various substance sunt to the uterus and tubes under pressure with tip pressure and und's normal continous. The techniques are and the following conclusions are drawn and the following conclusions are drawn.

1 The clearest roent enogram ar obtained

with the 1 e of lipiodol and barrom smul ion 2. According to control rosentgenograms, lipiodol persists in the normal uterus for nearly two weeks its presence after two weeks indicates an imperfect

uterus and a pathologico-anatymical process
3 In the pregnant uterus the opaque masses
distribute themselves in a peculiar manner between
the coverings of the fetus and the uterine walls
forming spots of different sizes

4 Roentgenography does not always show the quantity of residual opaque substance which is present in the walls of the uterus and can be demon

strated only by histolog cal examination. This may be explained in part by defective roentgenographic technique and in part by the distribution of ogaque substances in process of dissolution which cannot be shown in the film.

5 In the different experiments with lipodol the effects on the tubo uterine wall were quite different. After insuffiction under pressure the incidence of changes was 5 per cent and the atrophic changes were marked. After insuffiction without pres ure the incidence of changes was 40 per cent and atrophy was less pronounced or wholly absent

6 Lipiodol is resorbed in two weeks in the nor mal uterus b t persists longer than two weeks in non developed uters or in inflammatory or de generative conditions of the latter

7 Satisfactory re ults vete obtained with barium emul ion without any change in the uterus

8 Leucorrhora after the injection of iodine is

g The re-orption of the opaque substances or urs by continual penetration of the latter into the wall of the uterus to the p ritoneal layers

so The changes in the ovaries manifested by diminished function were noted only when sodine was used and thos manifested by marked hyper amia of the ovaries and the whole pentoneum when nitrate of silver was used

11 In all of the experiments with lipiodol and b rium no change was observed in the o aries the peritoneum or other tissues of the smaller pelvis

12 When the indications and contra indications are carefully considered and a correct technique is used hysterosalpingography is free from danger Entre .cnay me Moore

#### Mazer C. and Katz B R. Clinical E aluation of Combined Prolan and Anterior Pitultary Therapy Endoc ology 1933 Tvu 700

Mazer and Katz studied the effect of prolan and extract of the antenor lobe of the pitu tary gland when used individe lly and combined By prolan they mean if e anterior pit ntary like sub tance ob tuned from the urine of pregnant women. In the reports in the literature and in his own experience Mazer found that only 10 per cent of amenorabe c women respond to prolan alone However prolan has a favorable effect on functional uterine bleeding due to pitu tary denciency. The explanation is that amenorrhora and of gomenorrhora are due to more severe pituitary deficiency than functional " ced.rg and require more timulation than prolan can produce that there is a variability of species respon e and that in the human being prolan cannot time late primordial folli le development though it has a marked lit in ing effect

The work f ther investigators has adicated a biological desimilarity between prolan and the formone of the anterior lobe of the pituitary gland Prolan wa found o stimulate the prehormone of

the anterior lobe of the pituitary gland into an active ex hormone

The authors confirmed the findings of Evans in rats and of Leonard in rabbits that the combination of extract of the anterior lobe of the pituitirs gland and prolan causes a much greater ovarian response than either of the two products employed There appeared to be an unknown individually principle in the pituitary extracts which, when employed individually, produced no gonadotropic or growth effects, but when used in combination with prolan produced ovarian stimulation far greater than that produced by prolan alone

Lifts patients with amenorrhola or oligomenor rhan were given three weekly injections of 4 c cm of pituitary extract and from 30 to 40 rat units of The number of injections varied from tventy to sixty. Only nineteen of the entire group of fifty responded to the injections by six or more menstrual flows at regular intervals and of fair quantity. A few menstrusted while under treatment, but did not continue to menstruate after the treatment was stopped. Only one of the nine women suffering from hypomenorrheea responded to the treatment

The best results were obtained in cases of definite pituitary deficiency Thirteen of the twenty-four women classified in this group responded favorably to the treatment, while only one of thirteen women suffering from primary or arian failure was benefited The authors describe the characteristics of the patients with pituitary or ovarian deficiency

Primary dysmenorrhæn was not influenced by the

injections of pituitary extracts and prolan

A F LASH, M D

Sommer, S The Serum Diagnosis of Gonorrhæa in the Female (Zur Irage der Serodingnose der reiblichen Gonorrhöe) Zicele f Geburtsh u Gyraek , 1933, Cv1, 185

In a study of the practical value of the complement-fixation reaction in gonorrhan the author examined 308 sera "Compligon' and a preparation of the Department of Public Health of Prague were employed as antigens These 2 preparations proved

to be equally reliable

Of 106 cases of chronic gonorrhocal adnexitis, the causal organism could be demonstrated bacteriologically in only 27 per cent, whereas the serological examination was positive in 95 per cent. A strongly positive and a positive reaction constitute strong presumptive evidence of the presence of gonorrhæa, but a weakly positive and slightly positive reaction must be interpreted in conjunction with the clinical findings and are indications for further study of

In acute gonorrhoa a positive reaction is very rarely observed before the fourteenth day Therefore the significance of the test is much less in superficial processes limited to the mucous membrane than in chronic adnesitis

in metastatic lesions of gonorrhœa, a positive reaction may be expected in practically all cases The reaction is positive also in the cases of patients who have previously received injections of gonococcus 1 accine

As a rule the reaction continues to be positive for from two to five months after clinical cure

With regard to the specificity of the reaction in cases of serum positive lues, the author believes that only lucture who had a gonorrhaal infection previously have a frankly positive complementfixation reaction for the gonococcus

In conclusion, Sommer advises routine serological tests for the gonocorcus in cases of gynecological WALDINER (G) inflammation

Vidakovič, S. The Gonococcus Complement Reaction in Gynecological Inflammatory Diseases (Go Komplementreaktion bei den gynael ologischen entruendlichen Erkranl ungen) Liget rigesnik, 10,3, 1, 105

Up to the present time the gonococcus complement reaction has seldom been employed in ginecology although it may be of value in the differential diagnosis in many instances of pelvic inflammatory diseases. A differential diagnosis between puerperal septic, tuberculous, luctic, and gonorrheal infections on the basis of the history, clinical findings, and pelvic examination is often very difficult chronic gonorrhæa, microscopic examination of the cervical and urethral discharge is usually negative v hereas the gonococcus complement reaction is positive. Siegert-Schultze and Bruehl obtained a positive gonococcus complement reaction in 75 per cent of their cases, while Bucura, using his method of withdrawing and testing blood from the portio and the venous circulation, made a correct diagnosis in from 90 to 100 per cent of his cases

In the author's chronic cases the blood taken from the portio gave a somewhat stronger reaction than the venous blood In some cases the reaction of portio blood was positive when that of the venous blood was negative. In no instance was the reaction of the Venous blood stronger than that of the portio blood The test for syphilis was made at the same time In four of seventy-five cases the complement reaction was positive, a finding of great importance in the treatment. In one group of cases in which, although gonorrhoa was strongly suggested both clinically and by the findings of palpation, the gonococcus complement reaction was constantly negative and the condition resisted all forms of conservative treatment, operation revealed tuberculous salpingitis. It is emphasized that the gonococcus complement reaction was negative in many cases with clinical findings suggesting gonorrhæa In such cases further investigations are necessary

Léo, G Observations on Parasitism in Gynecology (Notes sur le parasitisme en gynécologie) franç de gynéc et d'obst, 1933, xxvIII, 834

Three common gynecological diseases caused mainly by parasites are described The author first reports ten cases of dysmenorrhœa due to helminde eloped a very severe form of gonococcic poly ue goped a very severe form of gonococcis poly arthrit's hich terminated fatally the month did arthrit of both be discovered. As the month did not be discovered. not ha e an evident con coccic septicemia pla

niai cran mussion was not consusted the first joksich in an infant i el e days old K titch joksich ental tran mission was not considered in an intant i et e oxys out a lice jossich in 021 d 50 cred a gonoc ccic p harthritis with The urethral

out other gonor heral localizations sectations of the mother spowed donococci Res des Daximas with chincally e dent septic

foct such as arthritis pregnant 1 omen may suffer from tran flore bacterizmas that pass unperceived and set are capable funfecting the fetus

Johl beheves that the fetu may become infected by the relation of the gonococy from the ragina into by penetrati a of the going cock from the samuette fluid by way of the fetal membranes e ammonic now by way or the retail membranes.

Besides the early arthriti of infants a late. gonorthe al arthritis may become manifest at the end of about three mouths In 1909 Hott observed dinte or aware three womens an idea when onserved during an edgemic of gonoc core arthritic (twenty four an ep aemic or gonor cue arurur (cwenty rout cases) in a children s ho p tal Although no gon cases; in a causires and please assured in the mouth the tas

of the ab tion that the utectron occurring phases of as of the packal mucosa. In 1927 Cooperman reported an chiqemic of 8 nococcic atthus 2 and snakested an epinemie or 8 monetie accurred by reay of that the infection may have coursed by reay of

le rectai mucosa Smilya belie es that the organisms enter the pody by way of the conjunctive and pass through it with or way or the cuajunctiva and pass through it with or causing ophthalmia Brentano is of the the rectal mucusa obtutou that Bouococc c zebit with a sometimes gre nice and a sometimes gre nice and is of the

to a bitmata, bostnatal mucosal infect on a primisiry systematical muchos a mich on The a thors have obserted six cases of gonoribocal these thors have onset on the difference and the women had mouth of the last the las forumation in preguant Three of the women had months of preguant. Three of the women had only the first of the forumation with symptoms of polyarithms. In two of the first with symptoms of polyarithms. the cases the child had no ophthalm a or other ine cases the chud mad no opiniam a or other localization hich might have served as a portal of weanzation a cn m gir has e served as a portal of entry. In the third case the occurrence of very entry in the third case the occurrence of very severe septicamic symptoms during the first days Severe sequences symposis using use may may only of life simultaneously, with the de elopment of only life simultaneously, with the de elopment of ophthalma led the authors to conclude that the ophthalma led the father than the confidence of the opninamna ieu ine aumois to sourcoure inac cue polyaribnis was related to the rheumaiism of the posyarismus was related to the incumatism of the mother tather than to the ophthalmia. Three cases mother tather than to the opposition are reported in detail. In the first case the mother

are reported in detail in the first case the mother developed a gonorrhoral arthritis four days before delivery and the condin n progressed in spite of a delivery and the condin a progressed in spite of a month of treatment. The infant born at term was month of treatment experience and extered and confine the weak (hypotherma confine the weak (hypotherma confine the weak). The menuter of the weak loss of weight) but had no ophthalmia loss of weight in developed polyarthring and on the twenty fifth day after b rib it died Conococci were found in the pus f the articulations ere tound in the puss I the articulations. In the second case the mother de eloped mon

an the second case are mother the coped mon strictular conforthesi theumatism two weeks before or the tenth day after both the infant developed on the term as after mith the mant developed polyarianus without se ere work to a cuent and

nere was no opinimations. The she shirtd case the mother developed sebrile In the third case the mother developed tenths Littee May no objetyajuna

last month of pregnancy and the condition to last month of pregnancy and the condice to intent developed gonortheral ophibilities a light lever and severe general involvement, 1 1/2,2 Souococcic boldstipung quefoldig on the end Animonia finiterating account the ficting of From these cases it appears that there is seen

lation between the severity of the infection with nother and the infection developing in the List mouner and the intertum descripes in the and After birth there was a period of pur grounds. writes partir mete 442 4 being in back how septicermia willion measure measure sealing and section lasted eight ten and twenty days in the limited respectively In Case 2 in which the microse the mother and child was beauth the three as a manner of metallic as a second that the second is mained latent. In the two other eases it within manner rateur in the two other cross is weight. The man period by leves and loss of action live many permu is outoned by a stage of multiple meaning (arthritis abscess) during which the reculiest from becomes more grave. One of the mind show that the many days. and percomes more grave. One of the large m death, in death, it open a conservorm synorome enough in count in subsides and the general condition mignores.

X Ray Diagnosis of Intra Certin chetti M Kay Diagnosis oʻ intra vima Death of the Fetts (Sulla caspool nda loras morte intra uterna del feto) R dal f rec Boschetti M

The author's expenence in the disguous of urn

ane author a experience in the disposes of the spalding see the trusted of the spalding see userine nexts by means of the spanning see her overlapping of the sutures has not been parent oversapping of the suites has not peen being all ally satisfactory. He menhoos that Kehre suite. others is also convinced that this sign is not what

Three cases with numerous reentstraggraps are Aurec cases with numerous stonigenoprime, the presented for the purpose of a loss in the charge presented for the purpose of the following three charges are contained as the charge of presented for the purpose of a biologist chief securing after fetal death fetal kill (1) if ye are noted (1) deformity of the fetal kill (1) if ye are least feral and feral and

were outen. (1) denormity of the tests send visit east feet of white and (2) regulity and tost of white sound column near courns.

Deformity of the fetal skull especially delication according on the letsl spull especially conserved or subbration of the cranal boxes at their rights were arbitrate to make a facility of the conserved to the c spinal column

or subbration of the cranial boxes at their tricker.

Investmentalisms was found to be the most relief

such articulations was found to be the most relief

are articulations was found to be the most relief

are articles are also ruculations was found to be the most rucus The author attaches considerable important sign "The author attaches considerable information to this abnormality whenever it appears in the point of this abnormality whenever it appears in the control of the abnormality whenever it is a the control of the co to this abnormality abnorers it appears in terrors renogram but states that its abnore does not pro-line fetus to be still above. Grosse C. Provide App. Dieckmann W J and Weiner G.R. The fleet in Jornal Precision of the first in Jornal Precision of the July 10 II June 1997 (1998) of the July 1998 (1998

Previous reports on the blood and plasma volumes of the blood and plasma volumes are other tod. crevious reports on the blood and plasma we are in pregnancy are at variant with each oth is to are inconclusive because of the placement in the in Pregnancy are at variance with each oldr less are inconclusive because of the distriction and methods used and the calculation. The value of the concreted or entire the calculation of the calculation of the calculation of the calculation. mensods used and the calculation. The relians in reported in cubic continuence per liberal with a sub-reported in cubic continuence per liberal with a sub-reported in cubic continuence per liberal reliable continuence continuence per liberal respective processing the continuence co

relative occases of the courant of the box weight in pregnancy determinations of the box of the authors made determinations of words. The authors made determinations of the low, and plasma volumes in various from the number of clienters to personate of the number of the numbe

# INTERNATIONAL ABSTRACT OF SURGERS

Some of these cases were under observation number of years Most of the women showed naracteristic symptoms of intestinal parasitic naracteristic symptoms of integernal parasites ation. Some of them had nervous symptoms as headache giddiness insomnia and picking te nose The others con ulted the author be te nose the others con unter the author he of gastro intestinal symptoms especially foul th salivati n abdom nal liscomfort irregular ten stuvett is account has inscinered, stregular temperature of the bowels and inten eithing about venients of the bowes and miene exching about and some of them had a pale or sallow skin and Some of them had a pale or sallow skin and some see the parasites found were the usunken eyes the parasites toung were the blasto ours or ascure or both in one case the bission at a homin and in another a rare form of in sy's nomine which in another a rate nomine or me string trichomonas the lamblas was discovered in Soluti incuminas un ambia was a scovered in the stools. The severe dysmenorthical was e ther the Moons 1316 Severe assume tration of anthel elieved or cured by the administration of anthel

The author next discusses infestation with trich omonas He cites Riff who claims that the onionas rie cites Kill who claims inst the trichomonas vaginalis is incapable of injuring nor tricnomonas vaginais is incapanie of injuring nor mal vaginal epithelium, but in the presence of even may vaginal ephthenium unic in the presente of even in croscop c les ons of the vaginal mucosa it causes in croscop c ies ous of the vaginal mucosa it causes the trichomonas vagin ( s which is characterized by a profuse watery Jellowish and frothy d scharge

This discharge produces multiple eros ons and some times even papillomatous growths of the aginal

The trichomonas al o cau es persistent pruritu The concurrence at v can be presented printer all x Cotte claims that nine of ten cases of vulvar ut at Cotte trains that time of ten cases of vulvar prunitus are due to it. The parasite may e. en in. ade wall

schmid and hamniker found that pregrant Norm d and Namniker joun! in the sgral where harbornog the trichomonas where high postpartum morbidity. Therefore it is advisable to examine the vag na for trichomonas advisable to examine the vag na for trichomonas. the cavity of the uterus survisante to examine the vagina for (ficanomas) before every confinement and every gyaecolog cal operation. The best treatment is the application operation are nest treatment is the application of a 50 or 100 per cent solution of silver nitrate of a 50 or 100 per cent solution of silver nitrate

For all persi tent cases of vulvovaginitis in chil err an perm tent cases or varyovaginitis in chil twice neekly oren use autoro autoroates the use of a verminge because this infestation is often aggravated by a submfestation with oxyura vermicularis. He cites submissiation with oxyums vermicularis are cited two cases of severe vulvoyaginitis with gastro intestinal and nervous man festations in girl six microunal and nervous man testations in gri six and tarce years or see in the discharge but also releved the general symptoms ISAAC ANDROSSIE UD

# OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS In Fraluation of Signs and Symptoms in the Diagnosis of Lettra-L terms prestonis in the interiors of Muets Cases | r (1) for and in the interior of the latest la Joras, 4 F Jr

Lembe Leading areas of a 11 to be often 2

The mais conseque the turbits of settle 1 is the rahit he the am the let bad lutic tiber coc mer Ja en er Lan in the last confer over merch, on a lower and the training will the mides of while one or delices of are mour to tellor off promote the dore of the toll see These ere paints are profil mietke, cicks, or or a brain in contacter live to print of talor

Mil righ min, textinois diste this or entires Ray to 13 n The pain is infre went is a least re of the committee bleed or occurred at enter the in the part cent of the energy the Physy rate wife hery and occase will it the west guitar of bright red bland. The bleed ag orien

Jonitha definct from that of whiching connects rescribed the rurmal mension of o occurred in about one fill of the cockness in the hypometric ren m, and mal tenderne ,

and pol ic may en ere present in the regularity In the reu'e crees that trove of e-ried upon rithm forth eight hours, the onset of the soute pain and its will marked to recurrence or an increase of the Joint The pain as o ten contracting and where as marked tendemen. I sammation seldom revealed a pulpoble mass, but disclase to passi and request saiting dullrers Signs of acute blood low sich as air runger, a rapid pulse cearing, and an, repension were limited to this gro p of creek The hite blood cell count has core derably ele vated varying from 9 000 to 37 000 and a craging 18 200 There as usually a sight me in the

Fikentscher, R Investigations of the Porphyrin Content of Human Amnotic Fluid Lact temperature content of numan annione ring that or agen where dea Popph namehalt dea men ch sech f Groot, ton, ch .

The increased occurrence of porphyrn during fetallife and its relationship to the growing organism, the presence of coproporphyrin in the meconium and the affinity of proporphyrin for developing bore have attracted the attention of obstetricians Since porphyrin can be demonstrated in the amniotic fluid of animals the question arises hether it is present also in human amniotic fluid and, it so, in nat concentration and at what periods of gestation

For maling quantitative determinations the author has developed a special method based upon

the security of Interesting the desermin time made the trap itometer (sentemps stometer) are or introduce press se of the for concentrator the period of the wife of the former of 12 source ( sient end energy and a descrip on ce the tech that the confidence is held to the court of highly to the fire determine the control of the lands

A tricky on theme will be grown and the bottom in the case man inc to be It the first the appropriate the feet of the other the transfer of the transfer o Consolite out the putation of a culti- cic come of the condition of the desire of the condition of t treel by abbraches of the million significant of contraction. The forest contraction of contraction of the braches of the million significant of the contraction of t Combret to a me of more content in to ition to compare to the property of the state of the relati e derreice duran Tre endies affect to so the purple in due not have its comm arm of the underface Tel a monti cot pregnance in the feed wine the source, fine and rule are for placental ter explained

Fransmission of Gonococcic Infection to the Slobozianu, II. and Herscovici, P Feffie fla salem a commencer immention to the where the classes and the

In the literiture on the problem of terreit of infections to mention to be found of placental there are reports of cases, lich demonstrate transmission (C gonococcic intection congen tal transmission of this infection are afford an explanation of a lenes of disorders that rould

In 16.11 Le demus reported the case or on infanc other use remain anexplained ten da old - ho saffered from gonucoccur arthritiwith garococci in the crucular haid. The child ad ro ophthalmia nor any other mucosal localization of the inject of The mother had conocord in the

In 1924, Finlelstein citing the voties of Yourtrom Lind and Vassett, admitted that in rare instances, a gonococcie pramia might be trans lochin

mitted to the in ant during intra-Lterine Life In 1925, Lischer reported a case of gonococcic arthritis, ithout on e ident portal of entry and ad-

Knouer, in 1025, reported a case of goro-rhoal mitted a placental transmiss on

rheumatism ir an infint ceren dais old ithout ophthalmia or vult ovaginits. He concluded that in this cise the bacteria had passed through the skin Hellmann, in 1025, reported the case of a boy born

casarean section who, four veels after birth,



centimeters per l'ilogram and the means for the different periods y ere calculated. Although there is a slight increase at terra, statisfical analysis in dicates that the changes are of no significance.

The indings of similar studies in a high the same vomen were followed throughout pregnance and the

paerpenum are summarized as follows

i Int blood and plish, volumes begin to increase in the first trimester. By the thirteenth neck the gain amounts to its and its per cent,

respectively

If term, the average increase in the blood volume is 23 per cent, and the average increase in the plasma, 25 per cent. This change is designated as an "oligocythian ic hypervole nia." Although the increase seems large, losses of 700 c can or more of blood are not once manifested in measurable reductions in volume. The pregnant woman survives losses of blood a high would be fatal to the non pregnant, organ, partly because of the increase in blood volume, but more particularly because of the tremendo is amount of fixed in her tissues.

3 Fight weeks after delivery there is an incruse decrease of 10 per cent in both the blood and the plasma volume. This does not quite equal the increase, but as most of the women's eight more after

pregnancy, the discrepance is explained

The increase in the blood and plass a volume is not merely to fill vessels, but probably a part of the mechanism required to permit proper tetal respiration

Cut H Davis, M D

Browne, F. J.: The Larly Signs of Pre-Lclamptic Toxemia, with Special Reference to the Order of Their Appearance and Their Interrelation J. O. at E. G. r. v. Prat. L. p., 1035, 21, 1160

Bro the reports a study of 120 toxic patients ob served in the course of a very in the clinic and arte natal "ard of the University College Hospital, Hypertension (130'70 or over) vas the earliest sign in 75 per cent of these cases and the sole evidence of tox cmin in 56 per cent. If dem was the earliest sign in 43 per cent and illuminum the earliest sign in 3 per cent of the case. Hence, a hile hypertension is the enthest sign in the majority of cases, it does not necess inly precede the other manifestations and the evidence does not pro-c that it is the cause of either adema or albuminum blood pressure rise early in pregnancy followed by a more or less prolonged interval of normal readings is considered by Browne a warning of future permi nent hypertension Hists Col, Ji MD

#### LABOR AND ITS COMPLICATIONS

Ssolowjew, W Manual Removal of the Placenta (Ueber die manuelle Placentaloesung) Moratsschr f Geburish u Gyrael, 1933, xxv, 34

A comparison of present day statistics with old statistics shows that the mortality after manual removal of the placenta has fallen from between 10 and 14 per cent to between 15 and 2 per cent. The morbidity, however, is still high, from 20 to 30 per cent. The decrease in the mortality is doubtless due to the fact that in former times manual removal of the placenta, because of its danger, was performed almost exclusively in the cases of exanguinated and morbiand women. Moreover, in the computation of the mortality neither the condition of the patient nor the associated operation with its own mortality rate were tal en sufficiently into account.

The author has collected statistics from Russian clinics concerning the frequency of manual removal of the placenta during the period from 1883 to 1918 and from 1919 up to the present time. In the first period the placenta was removed manually in 2,012 (0.95 per cent) of 304,192 deliveries, and in the second period in 2,527 (1.4 per cent) of 179,717 deliveries. The majority of Russian obstetricians ascribe the frequent practice of manual removal of the placenta to the frequency of abortion in the United States of Soviet Russia (damage of the uterine musculature, destruction of the uterine glands, infection of the uterine cavity). In the author's opinion, an equally important cause is the increasingly active management of the third stage of labor

In a series of tables arranged according to dif ferent points of view, the author presents his own statistics on manual removal of the placenta per formed in 150 (2 per cent) of 7 170 deliveries occur ring during the veirs from 10.0 to 1931. He found that the factors which increased the incidence of manual removal of the placenta included (i) presions abortions, (2) increased age of the women, (3) the number of antecedent pregnancies, (1) operative delivery (manual removal of the placenta was done in 23 1 per cent of the operative deliveries and 6.6 per cent of the spontaneous deliveries in the home), and (5) premature delivery. While manual removal of the placenta appeared to be indicated in 2 35 per cent of the entire number of cases, it was required in the cases of 10 (6.6 per cent) of the elderly pri mipara, 14 (0 4 per cent) of the cases of twin pregnancy, and 9 (6 per cent) of the cases of placenta presing The postoperative course was normal in 71 cases (18 5 per cent). It was much better in unin fected cases in which delivery occurred spontane ously at the clime than in cases of operative delivery at the clinic, and was poorest in cases in which delivery occurred at the patient's home. The gross mortality was 5.5 per cent (8 deaths), and the net mortality 2 per cent (3 deaths) The author deducted a case each of typhus, croupous pneumonia, and sepsis in which the disease was present at the time of the woman's admission to the clinic and constituted the indication for the manual removal of the placent: He deducted also the cases of 2 women who came to the clinic in a state of complete exsanguination and died respectively twenty and seventy minutes after manual removal of the placenta Of the remaining 3 prinents, 1 died of cmbolism and 2 of sepsis

Manual removal of the placenta is a dangerous operation. Therefore the indications must be estab-

I shed carefully. The primary ind cation is hemor rhage. In the ab ence of hemorrhage in cases of retention of the placenta, the period of expectancy bould be prolonged. District (6)

#### PUERPERIUM AND ITS COMPLICATIONS

Bohdanowicz Z and Ja iński T. Amerobic Bacteria in the Blood in Puerperal Infections (Ana ob ke no im Blot b pu speralen Infect to en) G et point 1933 x1 454
The authors made a bacter 1802 cal study of the

blood according to the method of Bloes in minety-one cases of pueperal sepsis in seven cases—in three of which it is folia and abortion—the perfit gen (Welch Frachk) I andlus was found. In one case the bacillus sporogenes was found in addition Bacterological studies for anacrobic bacilly in these cases revealed the stephylorocc; a abox and the streptoco cus hemolyticus in one the cases of infection due to anaer were no symptoms es entailly of it of analogous infections due to a some cases the presence of the bia in the blood may be the cause of se maintenance of a fram tory method of Boez facilitates also it he blood of bacteria with the c facultative anaecobes (staphylocrecial)

The authors employed different rement. In two cases an attempt a rent was made with intrinsiculor or m of anti-perfring in serum obtaine in both of these cases in prour e of the disease the authors be ment with specific serum is indicat fe er caused by acrobic bacilli.

## GENITO-URINARY SURGERY

#### ADREN L. KIDNEY, AND URETER

Henline, R. B. Triumatic Injuries of the Upper tringer Tract Following Instrumentation (1 In 11 Is 1954 of 18

The author believes that instrumental rupture of the arter following intra urefer if namiculation is less tree than the literature industes. He reports nine cases. Three required surgical drawings and two required nephrectomy because of severe infection of the hidness. In the remaining four, recovery followed pulliaries, treatment.

followed palliative treatment.
In experiments on does it w

In experimens on dogs it was found impossible to rupture a normal ureter by forceful dilutation or by forced syringe injection in retrograde pyelography. When the ureters of three dogs yere forcibly ruptured with a silver wire both retrograde and excretion urography demonstrated extravasation. The ureter of one dog punctured by a fine wire failed to show extravasation in the intravenous urogram.

Henline concludes that exerction unography will indicate the existence and extent of gross injury to the uniter and serve as a guide to surgical treatment. Informal P. Graver, M.D.

I ichtenberg, A von Excretory Urography (I uro rapi e executive — I durel sill et el e, 1933, 25731, 457

The author prefers the term "exerctory urography for the method ne introduced four years ago to the terms" descending pyclography "and "intravenous pyclography because the latter do not indicate the nature of the procedure. The method is not merely an anatomical demonstration of the ladney pelvis. It is a true physiological test of ladney tunction by exerction y better the contrast is administered intravenously by rectum, or by mouth. The urogram obtained by ascending pyclography. The author beliefes that ascending pyclography should be called "filling urography."

A disadvantage of the rapid acceptance of the author's method has been its use in cases in which it a so not indicated. Some investigators have claimed that the contrast medium may not be excreted even by the healthy lidney, but the author maintains that the contrast substance is eliminated by any lidney in proportion to its capacity for elimination

The contrast medium has been found to be eliminated largely by the glomeruli. There is only a slight absorption by reflux of the substance through the tubules. Therefore the test is an excellent one for demonstrating lesions of the glomeruli. After using the method in more than 5,000 cises over a period of more than three years the author is convinced of its value as a test of kidney function.

I xcretory urography is indicated absolutely in cases in which filling urography is difficult or impossible for anatomical or technical reasons, in those in which filling urography is negative or the pictures are not clear, and those in which filling urography may agray ite the condition and may be a inacrous. It is indicated relatively in cases in which a general view of the whole urmary tract is desired, cases in which information is sought with regard to tonus or a disturbance of the dynamics of the urmary tract cases of retention in which it is desired to determine the mode of exacution of the exerctory tract, and cases of disease of the adnexal in males and females in which the effect on the armary tract must be determined.

I xerctory urography is not of value for the early diagnosis of Lidney tuberculosis as slight defects in filling or in the outline of the calvees may be due to other cruses. In idvanced cases it shows the extent of the lesions. It is of the greatest importance in non specific iffections of the kidney such is acute suppuration and chronic prelonephritis changes of tonus can be differentiated from anatomical lesions and definite dilutations. From the condition of the ureter it is possible to tell whether the discuse of the ladnes is primary or secondary and to establish the indications for operation. The special field of excretory prographs is lithuasis both from the point of view of prognosis and that of indications for conservative operation. In cases of tumor of the ladnes the procedure is of value only in conjunction with other methods of examination In cases of tumor of the bladder it often gives better pictures than exstography because there is no irritition of the blidder by the filling. In cases of retention of urine it is of very great value because it shows not only the anatomical condition but also the nature of the process. Often the retention is due to a functional change brought about by changes of tonus which can be overcome with resto ration of normal function. In true hydronephrosis the essential factor is not the sic The sac is only the manifestation of a compensatory functional process to protect the lidney against inevitible hypertension, it represents the adaptation of the muscle to the changed capacity for climination of the pelvis. Therefore conservative surgery is possible in this condition. An essential part of kidnev retention is a disturbance of innervation Sometimes normal evacuation can be restored by denery ition AUDREY GOSS MORCIN, M D

Ravasini, C Excretory Urography (L'urographic excrétrice) J d'urol méd et chir., 1933, xxxxx, 464

Ravasini prefers the term "excretory urography" to the term "descending pyelography" Excretory

ntokishph is an essentially byhanological method which in the majority of cases gives valuable information with regard to the anatomical and funcination with regard to one aparouncer and turne tional condition of the kidneys. It shows the nouse commune or the renal parenchyma and secretory capacity of the recoas parentaryma and the moulity of the ureters and pelvis. The contra indications are limited to senous unaufficiency of the Figures or piece. If the rique's see inuctioning well increases are numer to serving insumments or the numeys or over it the shadoy polyis and treter appears the shadow of the lidney polyis and treter appears. the shadow or the bluney pervis and ureter appears within five minutes after the nicetion and that of within ave minutes ares the injection and the of

the busques within from nineco to twenty countries. The Steater part of the contrast substance is the alegen blom as point to two and a pall points Cantion must be used in interpreting spots in the parenchyma as these are not conclusive unless they purenunyna as uness are not enternable uness only appear constantly. When they are constant they suggest a tuberculous cavity not communicating suffices a concremous cavity not communicating t hich such spats appeared the presence of a cavity

as conumer oy operation.
Lichtenberg and Heckenbach say that the after vale monement of contraction and quistation of the was confirmed by operation nate recoverness of tonication and distance of the pelvis can be seen on the troops in but the author has pervise can be seen in the lass noted that there is some not observed it. not observed it the had ow even when the hidneys are unice in concess against even when the hidney does normal. This does not mean that the Lidney does notinal tols ones but meso that the points ones this substance in proportion to its capacity for time sourceaster in proportion to the various causes for failure elimination among the various causes on senter on the among anadow to appear are exagerated durens bypertonicity and hiding of the kidney by durens apperionicity and indust of the kidney by neteorism. The bladder shadow serves as a control meleotism the manuer spanow serves as a courso showing that the contrast substance has been

hinnaica brom experiments on from Hughes and Peterh concluded that moselectan is similarised batternally at mose street, and restent chminated y the giomerun on Lieuceners increwe cone demonstration of Jesions of Glomerali by the glomeruh

therments on rabbits Di Maio concluded that it enumatea careny ay the commended for judging The different methods recommended for judging seliminated chiefly by the tubules

tenal function by excitotis mostably, such as the renal function by excretory urography such as the are combicated and of no beariest name despite tions in regard to function must be made from the tions in regard to inoction must be made from the membrane and care in which the atograms antice serious control of the resid belies. The antico, telebotes cases in writer the recognitions and areters put oberation showed borms courie and urerers our operation showed normal country god Winkers found that the niests, testing to cou that analysiscs by changes in four and acce srass suparances up changes in form and size.
Abroali and proselectan have a different effect. Abroom and prosciectan nave a difference effect. Therefore is the interpretation of the program it is

on Lichtenberg believes that the density of the important to know which was used son Licentenberg beneves cast the density of the but the author has not found this to be true. He but the author has not lound this to be true He states that the density of the shadow may depend states that the density of the shadow may depend to the state of the shadow may be the state of the shadow has been a me that danced has wear the shadow of t on extratenut ractors it is imported in judging function to know the time that elapsed between

the injection and the appearance of the shadow how long the shadaw persisted and when it disappeared Only a boattie riques apadon has a functional Only a positive stuney shadow shadow conclusions must be drawn from the shadow of the ureters and bladder A distinct bladder shadow shows that the kidney is functioning whether the Lidney shadow

Exerctory urography 1 especially adapted to the structions, programmy solventains and tractional teaplita appears or not olmy of the case vernolettle containing and suntriving female tions on the kidney do not infine put ou the cou

Exceedus, neography 18 batticalarly imbortant in trary improve kidney function

anomalies of the lidney and ureter. In hydrone bptons it lives a mote accurate b critic than ascend ing bhefolkabhh ang often faringpes ing cations for hanness it exces a more secretate it etitie ing estions for ing pyenderabay and union turndays in let issue in the conser attre operation. Its raise in let issue is well Fuona Lalent indistyte to orginall coulespos raphy may be rendered visible. In renal tuber rappy may be rendered visione in renai tener culous it is very useful and sometimes indispensable canous at a seconding pyclography as often in possible painful or dangerous in this condition possible paulin of appartium in the configuration of the configurations of dutter interbietation of the toentkinokeans the the of the oldinary bracultoner are clearly enden to the eherajist. In cases of tenal timos, the method

to the specialist in cases of senat

Nated M. R. Excrete y Urokraphs (5 uros) phee The author has used excretory urography since

1930 It makes bo siple a study of the activity of the kidney and ureters under conditions that are per starry and determ after committees that the secretory stamilies to suling from the mection Care must be taken to prevent pressure on the ureters while the reentgenograms are being taken as it interferes with physio logical conditions The upright position is strictly bh'stological put as 10 this bosinos the notaribeing and meters drain directly and the studius pervis and presers drain quickly and the sideous are slight the reentgenograms are usually taken with the pat cut lying down It is a good plan to place the patent in the Trendelenburg pour in an arrangement of the patent in the Trendelenburg pour in an arrangement of the patent in the Trendelenburg pour in an arrangement of the patent in the patent a short t me fatreen minutes after the injection and wave a nemicenogram then reverse the hostion make a menterogram encu revense the bounders.

Of the serial roentgenograms those taken fire Ut too setted recutigenogradis the most valuable for minutes after the injection are the minutes after the most valuable for minutes after the minutes after gram five minutes later general information. The normal califications and before are statified at this time. Absence of a standard and the motivation and the motivation and the motivation of a standard and the motivation of the mo indicates retardation of excretion. If there is partial incurates retaination of exception of open after half an bour. Slight and changing shadows appearing early and disappearing easily are an indicat on the form are not function. Dense thad one constant in form are not normal they indicate normal secretion but internormal trey indicate normal secretion but inte-ference with evacuation bindows th t appear fale indicate interference with secretion. A prefer falled thousehout its leavest undirected live of tonus thousehout its leavest undirected live of tonus. throughout its feugly ingrestes I see of tours increase missistered with secretion is described in decrease.

The method is particularly valuable in cases of calculus, hydronephrosis and tuberculosis

In the discussion following the reports of Von Lichtenburg, Ravasini and Ward, Lasio said that descending urography is of great value only in cases of quite marked morphological changes the early stages of tuberculosis and tumor the pictures are not sufficiently clear for diagnosis procedure shows whether a Lidney is functioning but not whether it is capable of taking over the function of the other hidney Separate examination of the urine from the two ureters is necessary for

Dos Santos stated that excretory urography is the first method of urological examination that tion regarding the morphology and function of the this should be used systematically kidney which is sometimes sufficient to establish the prognosis and indications for operation However, as the picture depends on elimination, it may not be sufficiently clear if elimination is abnormal Under the latter condition, ascending pyelography may be necessary For finer details of function it may be necessary to use chromocystoscopy, phenolsulphonphthalein, and catheterization of the ureters However, the systematic use of excretory urography greatly limits the necessity for ascending pyeloscopy and cathetenzation of the ureters A valuable supplementary method is arteriography by the inlection of uroselectan or abrodil into the aorta, which gives a picture first of the abdominal aorta

CHEVASSU emphasized that, in spite of the great and then of the Lidney pelvis interest in excretory urography, this procedure cannot replace the determination of azotæmia, the determination of the constant, and cathetenzation of the ureters in the study of the function of the kidney, or ascending pyelography in the study of the

LEPOUTRE said that excretory urography is extremely valuable when it is positive. It may show anatomy of the Lidney a hydronephrosis, a ptosis or abnormality of the kidney with much less difficulty and chance of error When it is negative, that is, when it does not produce a shadow on the than ascending pyelography painful side, ascending pyelography must be used It is of great value in renal tuberculosis if its results are interpreted with care In cases in which cathetenzation of the ureters is impossible it may render a double evploratory lumbar incision unnecessary In cases with a poor constant it may confirm the evistence of bilateral lesions and show the nature of

RUNI stated that excretory urography does not the changes in the two Lidneys the place of other methods of examination of While it is not dependable in h tuberculosis, it is of value in cases in which theterization of the ureters is impossible as it per-

its diagnosis without exploratory incision PISTEIU said that excretory urography is an vcellent exploratory method for determining what ater methods of examination are necessary

time of appearance and disappearance of the shadow gives valuable information in regard to the secretion of the kidney, and the way in which the shadow of the pelvis and ureter disappears shows the conditions of excretion in Lidney and ureter Theoretically it should be superior to ascending pyelography, but sometimes the shadows are too pale

OECONOMOS reported that in 80 per cent of cases excretory urography gives a more or less distinct picture of the kidney, pelvis, and ureters, but the picture is not so clear as that produced by ascending pyelography It shows disturbances of elimination pyciography It shows disturbances of chimicator rather than secretion of the lidney, for if secretion is normal and excretion is interfered with the pic-

CASPER stated that excretory urography cannot be substituted for ascending pyelography and is tures are very clear not always rehable as an indicator of Lidney func-In cases in which elimination is interfered with the shadow may be very dense when the kidney is seriously diseased, and if the pelvis is insufficiently closed so that it is always empty there may be no shadow when the kidney is normal. If the picture is taken during systole of the pelvis the pelvis will appear very small, whereas if the picture is taken during diastole there may be no excretion of the opaque substance though the Lidney is normal

BEER said that excretory urography does not give as clear pictures as ascending pyelography is necessary in cases in which cystoscopy and cathetenzation are impossible and may be of value in clearing up certain obscure abdominal conditions CIFUENTES emphasized that a great deal of the value of excretory urograms The most valuable interpretation of the urograms roentgenogram is the one taken five minutes after interpretation of the urograms

PASCUAL discussed the indications for excretory urography in renal tuberculosis on the basis of 289 the injection

PASCHLIS presented urograms of cases of pyelitis, roentgenograms taken in 163 cases

nephrolithiasis, and cystic dilatation of the ureter AUDREY GOSS MORGAN M D Elimination

Urography and Comparative Estimation of the Chabanier, H, and Lobo-Onell, C Function of the Two Kidneys (Urographie d'élimination et exploration fonctionnelle comparce des Presse med , Par , 1933, xli, 2010

This article is a discussion of the question whether intravenous pyelography meets all requirements for the determination of the comparative function of the two kidneys. As a rule the function of the kidneys is estimated by comparing (1) the pyelo-ureteral shadows (von Lichtenberg), and (2) the time of appearance and decorporate of these shadows pearance and disappearance of those shadows (Rava-

In the authors' opinion the method is open to sını)

numerous objections. The two chief objections to it are based on the following facts (I) the concentration of the opaque substance is influenced by anything interfering with the flow of urine (e.g., ob438

struction at the ureteral orifice) and (2) the depth of the column of unne in the ureter is variable de or the column of time in the direct is various us pending upon the degree of diureus and the rate of

flow in the ureter

The authors conclude that when ureteral cathe terization is practicable it should be done especially as it makes bacter ological informati n a vallable at The Lateral the same time

### THE LATER AND INVESTIGATION OF ITS Value in M rtz H O and Hamer H G Petogram An inve tigation of 113 value Urol gical D agnosis J Urol 934 x 1 23

In urological diagnosis the authors make a lateral p) elogram to obta n information supplementing pyrogram to ours in internation supplementing that yielded by the anteroposterior film Standard pyclographic med a and methods of injection are

Satisfactory lateral pyelograms permit a study of he vertical position of the kidney disclose any rota tion or anteroposterior di placement of the kidney and shot the outline of the pelvis and the course of the upper part of the ureter as it enters the pelvis the upper part of the dieter as at enters and perfect they often lead to a more complete understanding of the pathological changes present and occasionally or the participant thanges present and occasionary confirm a differential diagnosis which would other Carbuncle of the kidney Am J w se rema n doubtful

## Taylor W N

Taylor reports a case of carbuncle f the kidney 1 ayıor reports a case or caronicies 1 the aroner and describes the condition as a metastat c hæmatog enous localized renal infection

The condition is practically ala 18 closely asso cated with an infectious lesion 1 hich acts as a focus crated with an intectious resident, men across a consist of blood stream in asson. In 70 per cent of the of Diodu stream in asion an 70 per cent of the ninety f e reported cases it as thought to be ninery is reported cases it as thought to be secondary to a skin infect on and n i per cent Securinary to a said intection and its per cent was attributed to a respiratory dental or glandular

It is practically al ays due to the staphylococcus sureus Pathologically the le ion is primarily one sureus ratnoiogicai) ine it ion is printarily one I multiple I cr of afection of the interstitial tissue cond tion of the k dne) The treatment is surgical H RRY W PLACGEMEYER M D

## BLADDER URETHRA AND PENIS

Hortolomei N and Katz Galatzi T A Contribu tolomes of ano Natz Chiartes Acousting the first of Ur thrography (C ninb tion to the Study of Ur thrography ( 1 mtd

The authors stat that urethrography a capable of g ving mu b information that cannot be obtained by ord nary methods of urethral examination such by ord mary microsoms of ureuma examination such as the use of boug s and sounds and urethroscope as the use of boulk s and sounds and urethroscope examinat n. The contrast medium must be suffi cently radio paque to gi e adequate isualization eliminable by the normal channels macibl with urine easy to prepare, and non t x c It must n t urine easy to prepare and nout ac at must a cobe be a susp ns n while f rms a precipitat. Though stances best m et ng these requirement a trast and uroselectan

The urethrograms are made by to o methods the ascending and the descending In the descending assenging and the descending an one descending method the dye uroselectan is gi en intravenously method the dye disserted in 8; en intra-county and when the patient experiences a desire to urnate and when the patient cape reflects a desire to trimute a a roentgenogram is made as the d) e accumulated in the bladder flows out This is done with the patient in the lateral position so that the penis can le along in the lateral position so that the penis can i e along the surface of the plate. The legs are so arranged that they will not o ershadow the urethra. In the ascending method the uroselectan is introduced into the penis under gentle but defin te pressure automatic devices are employed. When e ploration automatic devices are employed the flu d is intro of the anterior drethra is desired the flu d is intro of the anterior means is beauty the in a common dured under a pressure which is not sufficient to overcome the resistance of the sphincler When the posterior urethra is to be e plored a somewhat

Proper interpretat on of abnormal images requires greater pressure is employed a knowledge of normal variat ns and cons derable experience When the bladder is emptied the shado experience when the plantier is empired the shado will be found pear shaped the poster or wrethra WILL DO LOURING POCAL SINSPECT OF LIFE MANAGER o intend to joint the small country the moderate pressure injection is given from ocion the moderate pressure will cause a dilatat n of the bulbar urethra and be will cause a charact not the bulloar arctiffs and be a cause of its normal tonicity the posterior unch a will be completely free from fluid Alterat on of these win be completely free from find Arterst on or these two p ctures usually indicates pathological changes Trethrography is of value in the study of urethral Ureintography is of value in the study of urethral attrictures false passages d | tation and diverticula

strictures taise passages of the urethra prostate urethral calculi abscesses of the urethra prostate Cowper's gland and seminal vesicles and unitary

The authors believe it should be used in all cases a we nuturally believe it should be used in an eases of suspected stricture even before the urethra is fistulæ

explored with filiform bougies

## GENITAL ORGANS

Pr stat and Disease of the choft Hadd r D verticular Formation Pr stat and Disease of the CK of the District The Etiological R latin hip Betwen The Etiological R latin hip Betwen The Div ritcular Formation and Chronic Hyper il ltz B y r tr phi Pr statits Steno i of the Neck of the Present and the state of tr phi ir staticis oceinof th l the Bladder Di ticula of th l Ureteral and Renal Dilatati n t t mal d'd the Bladder
Ureteral and Renal Dilate
Ureteral and Surgery of The
at Prev ntive Surgery of I p mind ti t tnd tules tnos. i Tun et i giqu itt t les thought in u teal
les é u les pént d'
E a d hrus pént d' 6 t ph

in

The author calls attent on t the gravity of small the author cans attent on tone gravity or small the believes that such di erticula e n gi e rise to choos construction r sulting n distation i the ntr umary tract dilatat n trabeculati n ani d vert ula formati n in the bl dder and d latat n

The divert culs are gener ill de to enereal of the ureters and & dne s nfections which do n t result in true pr tatic abscesses but cause such destruction of prostatic tissue that small crivities are formed. In some cases they are due to infection secondary to some other focus. Whatever the source of the infection, drainage usually occurs through tortuous pathways and is inadequate. Under such circumstances secondary infection is very common, and with it the prostate becomes swollen and the prostatic urethra narrowed and tortuous. When the infection persists, the entire prostatic area becomes hypertrophical and sclerosed. The seminal vesicles are involved in the process and become the site of infectious foci.

The symptoms are those of chronic prostatitiwith polyum, burning on urmation, a morning drop, and symptoms due to the bicking up of urm. The diagnosis is established by cysto urethroscopy and urethrography Anteroposterior, right oblique, and left oblique roentgenograms should be made. They sometimes show the prostate to be shot through with diverticula which give it the appearance of a bunch of grapes.

The author advises operation for this condition before it results in the serious consequences described Ions W Prios, M D

### Caulk, J. R., and Patton, J. F. Postoperatise Complications in Transurcthral Surgery. J. 1 n. 18 1ss., 1934, cn., 117

By means of a thermocouple placed in various media and in the prostate glands of men and animals the authors measured the heat produced in the proximity of the various types of high-frequency currents used in transurethral surgery of the prostate and compared it with the heat produced in the tis sues adjacent to a crutery punch used similarly. Their findings showed that the heat of conduction

from the cautery is insignificant while the induced heat produced between the two electrodes of a hightrequency current is sufficient to cause tissue death for a considerable distance from the loop. These findings were confirmed by histological examination

The authors give statistics demonstrating that complications are more frequent and the mortality is somewhat higher in cases treated by transurethral electrosurgery than in those treated with the transurethral cautery punch. They conclude that the instrument using a cautery current is the safest, and that the high frequency apparatus must be changed or discarded.

Theorite P. Graver, M.D.

## Ferguson, R. S. Pathological Physiology of Teratoma Testis. J. Im. M. 1ss., 1033, ct, 1033

The author discusses the quantitative secretion of Prolan A in cases of tumor of the testicle. The urinary exerction of Prolan A is determined by three factors (1) the embryonal characteristics of the tumor, (2) the stage of the disease, and (3) the resist ince of the disease to therapy

From the estimated number of units in the urine, the type of tumor may be determined. In cases of embryonal carcinoma, the urine contains from 2,000 to 10,000 mouse units, in cases of seminoma, from 400 to 2,000 mouse units, and in cases of adult teratoma, from 50 to 500 mouse units. In cases in which the excretion of mouse units is not affected by surgery or X-ray irradiation the prognosis is unfavorable, whereas in those in which the units decrease and subsequently disappear, good results are to be expected.

Prolan \ is believed to be produced by the baso-philic cells of the anterior lobe of the pituitary gland

J SIDNEY RITTER M D

### SURGERY OF THE BONES JOINTS, MUSCLES, TENDONS

#### CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Eillott G R. Chronic Osteomyelitis Presenting a Distinct Tumor Formation Simulating Clini cally True Osteogenic Sarcoma J Bo c & Jo ( Swg 1914 XV 137

With few exceptions o teomyelitis in early child hood is disgnosed treadly. Difficulty in the diagnosis is encountered usually only when the condition occurs in later life. The perpleting cases are those of rather slowly growing saccoma and selecomog ottomyelitis.

The author reports a case of a borderline condition which because of the marked plasma cell reaction Ewing believed to be a chronic inflammation and described as an osteomyelitic plasma cell myeloma.

The importance of a very complete chinical history and a good roentgenogram properly interpreted is emphase of Occasionally hosps in necessary although it is generally believed that his p should be avoided if possible. Biopsy should be done by the aspiration method or the punch method.

NORMAN C BULLOCK M D

Oberzimmer J The Formation of Circumveribed hecroses and Sequestra in Osseous Tuber culosis (F muz ne do netros) circo nite e di see esti nella tubercolos 0 = 2) Chi d org; s d morme lo 1933 x 10 317

Whereas in program osteomyelitis the formation of sequestra may be considered a sp not fresolution in ossess, tuberrulous it is a part of the pathological process. In osteomyelitis it is the healthy tissue of regeneration which determines the demarcation and acquistration, whereas in tuberculosis this is determined by a specifically liseased granulation its in Enterform it is apparent that in tuberculosis the program of the program of the design of the focus is in transferred to the design of the focus is it represents a phase of the design of the focus in the transferred to the design.

the development of the touckees on a soft observed to the balance of the touckees of the touck

The gene is of the e necrotic areas is not definitely understood The morphological findings suggest a rather acute process. If these areas represented true infarcts there would be emboli in some of the vessels or an obliterating endarteritis would be found. The findings are not constant. The clear osseous structure of the circum cribed foci may be explained by the rapid caseation of the involved area long before the granulation tissue h s had an opportunity to destroy the bony trabe ulæ In the stage dinner which the recrotic zone retains its connection ; th the surrounding to sue the patient usually does not consult the surgeon as there are no symptoms. As a rule symptoms develop only when the joint surface is involved. In the development of the process an area is surrounded by tissue which is capable only of destroying bone and not forming it. The two ereas then become very rapidly demarcated. This de-I mitation but not or mplete separation of a necroti zone is associated with more pain and limitation of function The focus undergoes gradual re orntion but as the process may require many years healing may take place before complete disappearance of the focus In the process of healing the tuberculous granulation tissue becomes replaced by a healthy granulation tissue The latter however lacks os eogenet c properties. This is manifested in the roentgen gram by intensification of the clear en circling zore. The necrotic bone serves as a focus for new bone growth. In this way repair seems to start The er tire process may be easily followed in the mentgerograms included in the article

In the freatment of the cond in the focat on and ant ear they frocess must be con thered. Conserva tism should be the rule unless there has been a disturbance of the joint surface. Resect on of the joint may be done to basten recovery and reliabilists on for economic reasons relieve pain and reduce the chance of secondary tuberculous lessons.

A Louis Ross M D

Allende G Bone Syphilis in the Second Period of Childhood Lasifi 6 a las gu da nisncus) Rend of pyromil 1933 u 16

The author reports seem cases of fone symbist in children from five to hittern years of age and suppliments the reports with photographs and roost renograms. There cases of livered in many repetition cases of bone yiphils in a toung infants. In almost all of them the applish was actuated by trauma. The learnes corresponded to those of tertury symbils in the alult. Three of the patients had a diduse guirmatious entomyelist two had a symbil the hyportostosis one had a white a cling with ecorroous controlled and the office article described by Fourner and one had a white a cling with ecorroous changement of the joint and support

tion but no bone lesions demonstrable on roentgen examination. One of the crees showed the leopardskin roentgenogram of the epiph seed form described by I ance and Huc, but the condition had invaded the epiphisis, the metaphysis, and the joint cirulage, resembling a malignant bone tumor

The lesions at this age are most apt to be localized in the metaphy sis and cause disturbances of growth In the cases in which the joint cartilace 1 as affected there was an increase in the length of the bone, and in two crses in p hich the tibi? Was nifected without involvement of the fibula the tibra vas very much curred and there was a marked pes valeus. In one case of syphilitic hyperostoses the length and thickness of the tibin were enormously increased

Source and were continued in a number of cises. Adenopathy were normed in generally crued by adenopating was rare it is generally crused by secondary infection. This is a point usually differences entiating the condition from oscous tuberculosis However, cases of true syphilities seconds with bone les ons have been described One of the crees reviewed by the author was an example of this condition As the Wassermann reaction remained negative there was doubt as to whether the condition was syphilis or tuberculous in spite of the tendency toy and ebunation of the bone. In such cases blops, of the glands is of great and in estab

Suppuration occurred in five of the seven cases In most reports it is described as abscesses due to the lishing the diagnosis brest ing down of gummsta which have no tendency to spread, a characteristic differentiating them from tuberculous abscesses However, in some of the author's cases there were enormous abscesses with frank fluctuation and migration to the thigh. In one case they had their origin in an arthritis of the hip Most surgeons advise against operation for these observer that the material state of the control abscesses, but the author finds that surgical execustion improves the general health and shortens the The serological reactions time required for recovery

As a rule potassium iodide, bicy anide of mercury, are frequently negative in these cases and sulfarsenal vere used in the treatment. In some cases bismuth and neosalvarsan vere employed AUDREY GOSS MOREAN, M.D.

Bone and Joint irel de ned Agullar, J. G., and Maruri, C. A. Syphilis (Sifilis osteoarticular)

This article is based on a series of eighteen cases of syphilitic arthritis and thirty six cases of osseous

Two pathological processes, destructive and constructive, are combined during the development The granulation ussue of the gumma s/ philis At the same time the surrounding tissue is stimulated to produce new home. The surrounding tissue is stimulated home think infiltrates the bone, causing necrosis new bone The surface of the diseased bone thus of gummata appears irregular, roughened, and croded, and the bone as a whole may be larger than normal Is the entire home is a making it may become hardened entire bone is involved, it may become hardened and thickened As a result of excessive absorption

osteoporosis may result. The abnormal fragilityo deops thyrosis may result in fractures Imong the cases reviewed there were twenty-five or acquired and cighteen of congenital syphilis. In

both confental and required sophilis periosities treducted for games the cubline stake my occur simultaneously in many bones Gum m tous periosities developing in the late stages of arrows perments acceptate in the title states of explaints is characterized by chronicity and the size which the lesions atting Lirge wheels which dis anich the resions tream trings uncer which the regressions the microid, foul smelling pus follow the regressions them. whe changes in these lesions. The surface of the bone my be denuted, and even dead bone my appear in the floor of the ulcer Gummatous ostetis in cottre is frequently secondary to periosities

bone n'i therefore be completely destroyed Syphilis of the joints mill to the control form expanse of the joints may be manuscial is a senovial form there are no characteristic tocatgenographic signs

Chrome resistant hydrops man develop There is hitle interference with motion, and only slight pain knee is involved most frequently The lesions of osteo arthritis are a ried Arthritis may follow the rupture of an intra osseous or

perioscen ioens mer ene joint ervir, incienta estitulare mai be destroyed. I fail joints or ani viosis perosterl focus into the joint civity with contrictures mix develop. They occur most frequently in the fingers and toes, the condition being then often confused with arthritis deformans In the larger joints the condition may be confused in the parker joints the conviction in the serological with tuberculosis. Of fifth cases, positive serological reactions were obtained in forty five (90 per cint) actions were operated in total the more per center.
Trestment with ealty result and bismuth has yielded

WILLIAM R MITTIER, MD very satisfactory results in all cases

Peirce, C B Giant-Cell Bone Tumor Some Considerations of Treatment Radiology, 1935, XXI,

The giant-cell bone tumor is a sharply circumscribed central tumor of bone in which large multi-These cells are distinguished from foreign-body grant cells by the nuclear grant cells predominate spindle celled strom? and sometimes cystic spaces central position of their nuclei spinuse ceneu scromer and sometimes essue spices containing bloody fluid. Its growth is limited by the epiphyscal line, but after the epiphysis is closed, it Valignant degeneration may result from excessive repair activity may extend to the joint

Trom the standpoint of treatment the giant-cell tumor may be regarded as a benign but progressive metaplasia which may result in disability if it is not eradicated Biopsy should not be necessity as the diagnosis can be made by roentgen-ray examination The usual treatment has been curettage and cauterization, but many surgeons do not fully approve of this method Especially when the bone involved is a weight-bearing bone, complete curettage of the growth may be impossible without interfering with the function. growen may be impossible without interesting with its function. Roentgen therapy has yielded good results in many cases. This bound on the there were sults in many cases. It is based on the theory that the giant cells are of an undifferentiated or embry 0-

nal type and the strad atton bastens their matunty man type and the made and made a done is s for and death. As a rule there is increased bone is s for and death As a rule time to increa entirone 1) a 10? se tral weeks after the beginning of the treatment 34 se eral weeds after the degrading of the treatment.
There is no necessity for hospitalization and there is no designment of the limb such as results from

of a series of cases reported by Simmons a cl nical One from roenteen ray therapy was reported in from 13 to 15 Per cent and a clinical cure from sur gery in from 63 to 72 Per cent. Of the author s seven Real range of the selection of the care of the case selection of the care of the case of t seen cases ich were cumicany cureu-tour by roent gen ray therapy alone five by roentgen ray therapy and surgery and one by each ion. If surgical attack and surger) and one by exci ion at surgical and fol

lowed by roentgen therapy

# Col V. H. The R wits of Irradiation in the freatment of Operabl O teofs n c Sarcoma of the Long Bone Rod of \$1 1033. xz 318

The very lo percentage of cures from amputation.

The very lo percentage of cures from amputation of the long bones has been very discovered from the long bones and the properties of the long bones has been very discovered from the long the long that the for sarcoma of the jong bones as occur very us-couraging T entry years ago this percentage was only from 2 to 4. More recently there has been only from 2 to 4 store recently there has been impro ement in the results due chiefly to earlier impro ement in the results une emeny to estuer diagnosis. The author concludes that these tumors augnosis Line author concludes that these tumors are too resistant to justify irradiation. Ewing, Jane are 100 resistant to justify irradiation from Jane ne) and the the seems to be earlier of agnos a The solution therefore seems to be earlief a zeros s and earlier amputation. When a positive d agross s and earter ampuration When a positive d agnos s cannot be made by clin cal and rocatgen studies cannot be made b) cun cal an 1 reentern sucures though should be done Frozen sections may be biops) should be done ill come from watting for milled by the come from the come fr

Although some nelu t ng Bloodgood ad ocate a belog of Maria ou of three of long weeks white grounds some ucin the prooffcon an ocyte's perium of traduction of enter or tout needs mile paraff n section tions of et ittagration of pone finners have occurred a number of sections tearity riom o et itiaunatum of owne culture may consisted. where of quely countries that thereby and rad numbers are cited amount of the countries to induce or occl. incurrent and interaction may improve the teaming put at present the auth r doe not bel eye that we are justified in the auth 1 doe not bet eye that he are planned in early substituting, irral atton for ampulation in early

recture solutions of the total export of Bartlett on a freely not taken to the report of operable sarcoma of the long bones 1 reept n 1 taken to the report of Datelett Diff a study of cases n the Registry of Bone Sarcoma in study of cases in the recklary or more controlled the year cure from amputation were not cases of type at construction of the cons Numerical social crimate the 24 cases of a ical Bartlett mean only the tumors showing new the first state of disting a right angle showing the bone format n 18 per ent f all osteografies and then on 18 per ent formation and the showing the s

sarcomata can be included to the fire year cutes doesn't include all of the fire year cutes pes n t include all of the fire year cures
The auth r reports 4 cases of cure by treatment Luc auth r reports 4 cases or cure by treatment with rad um de Proentgen trradiat on and C ley s with ratt um as prosticen trainer on any (see a i na put ali i the turn is w re norosarcomata of wmaign no; some of which of not produce new bon hands is not if 163 cases it the VI not like t n nat tiospeat we radiat on we thout amputs rocateer ray read um radiat on we thout amputs tion there were no ( e ) ear cures whereas n 20

cases treated by amputation or resection there were asses created by ampuration or resection there were homeine are in 4 of the cases of the femin. Of 10 numerus was invoicus anum me 3 me iemur Ch 10 cases treated by irra l alion and the use of Coley 5 toxins 4 ere cured without amounts on and 2 with tonins 4 ere cured authors amputation and a minimum and amputation. The series sho is 50 five, years cures of amputation of the 1 mg bones. In 33 the arroma was accommand the 1 mg bones. of the osteogenic type and in 23 of the endothel al

n coma type In conclusion, Coley says that routine irradiation of early operable cases should be abandoned e en or early operable cases shown be auditioned if it is as a preliminary while and time on mons. It is doubtful whether postoperative trial alon will be the postoperative trial along with the postoperative trial along the present measurement. myeloma type prevent metastases Cole, s tor as and irradiation prevents mercanases core) s we us sun management fibrosarcomata and may cure one less mangnant unrusarcumata and those of the endothelial myeloma type and those of the endothelial myeloma type. none of the entouneural myeloma type. In cases f non-crause cumors area atton may retain the growth of the neoplasm and relie e pain in all others of the neoplasm and relie c pain an activities amputation should be performed as soon as a

positive diagnosis is made Results of

## igh G De N Jr Progre ive Pseud hyper frophic Muscular Distrophy Results o tropnic inscular Distrophy Results of Tr atment with Epin phrin and Pilocarpin J to W. Correction Hough G De N Jr

Hough revie a his thirty eight cases of pseudo pyperir phic muscular distrophy and fit) ax cases uppertr paus muscuair upscuppy anus 113 p. 2002. The reported by others in h ch ennephra and palocar reported by others and the states that all of the reported should be reported to the respect of the he patients showed city t subject e or object e and posterior and you citif to subject to or outset to treatment inflored the treatment interpretation of the treatment in th Morever the impro ement was most marked in however, the improvement was most market me least advanced cases and in only one case was there rease advanced cases and in only one case was there any endence that the progress of the disease had

been stopped Hough therefore bele es that the neen support 1100gn therefore per es that the treatment is not curative and must be c numed in treatment is not curative and must be c numera in definitely the doubts whether it has any influence definitely the adouble whether it has any minuted on the duration of life. The improvement in his on the nater on or its from the patient to wall. cases nawn councem to engoicine patient to but it again a falter the ab [17] to nalk had been but but it. one a aree one and the to make and open nose but it is greatly improved any funct nthat assuit po but it is greatly improved any funct nthat assuit po but it is greatly improved any funct. greatly improved any tunct in that as still po ble greatly improved any tunct in that as still po ble flowers from the following flowers and o z cm of a procession of the pro or part that any or com on a firem southern the combined use of other methods of treatment

Tuberculous Rh umati m Co d m ghe be b nesicial

Tuberculous rheumas sm s often c niused with supercusous recumas sm s otten c nused will goutly or gonorthesal arthritis It s seldom correction. gratus or konneturen armino it a semini a que ejore uisgnusco ninen a spontaneuus accinit a and n n a patient who has a north a and n ther a nection the other a restrict as a finite nection to the transfer and a state of the samulative when a state of the samulative when a state of the samulative when a state of the samulative was a samulative tuberculous individual in tuberculo is shoul its nens primari respon ble f the auth f the sub f manifestat n of a tubercul us infe ti n and that maniresias n of a tupercut us inte ti n and that its nature may b det cm ned only by experimental procedures Clinically, a protracted "rheumatic" inflammation of a joint which gradually turns into a tumor albus is tuberculous from the beginning There is no reason to assume that an acute rheumatism which occurs in a person with pulmonary tuberculosis is due to a secondary infection. Rheumatic manifestations following injections of tuberculin are well known

The anatomical and bacteriological proofs of the correctness of this theory of tuberculous rheumatism are found in cases in which there are specific cellular reactions in the joints or aspirated joint fluid yields the tubercle bacilli on culture or guinea-pig moculation, but the author admits that in the majority of cases these proofs are lacking According to the Lyons School of Medicine, headed by Poncet, the tubercle bacillus may produce simple inflammatory (non specific) lesions in serous membranes

The manner in which such a tuberculous rheumatism is brought about is conjectural. Four theories have been advanced. According to one, the condition is due to diffusible toxins, whereas according to another it is produced by adhesive poisons. Both of these theories are unsatisfactory. According to a third theory, the condition is due to the direct action of the bacillus, and according to a fourth, it is due to the action of a filterable virus.

Le Sage believes that tuberculous rheumatism may be due to the action of the bacillus itself, and that in some cases this bacillus produces a non-specific inflammatory reaction. He is of the opinion also that there is a virus form which may cause rheumatism and then change very slowly into the bacillary form without causing obvious clinical signs of tuberculous infection This apparently is the explanation of cases of rheumatism which go gradually over into the tumor albus type of joint At this later stage the tubercle bacillus may be found on culture or guinea-pig inoculation of the joint fluid author reports seven cases which support these conclusions Chinically, tuberculous rheumatism is characterized by local attacks with more or less brief periods of respite and obstinate relapses This may produce chronic arthritis, cysts containing rice bodies, and retraction of the palmar aponeurosis in the hands, three clinical forms of the disease which are often not recognized as being of tuberculous origin CHESTER C GUY, M D

Brown, L T, and Kuhns, J G Mechanical Instability of the Shoulder Joint in Relation to the Prevention and Treatment of Painful Shoulders J Boile & Joint Surg., 1934, XVI, 88

This article is an illustrated discussion of the factors predisposing to muscular, tendinous, and capsular injuries about the shoulder joint. The same factors may defeat conservative or operative methods employed to relieve these injuries

The authors emphasize that mechanical instability of the shoulder joint is related directly to poor body mechanics in the thoracic and cervical spines and the thorax as faulty posture allows the shoulder

joint to assume a position that predisposes it to injury and renders treatment of the injury difficult if not unsatisfactory. The shoulder girdle is so constructed that when the body as a whole assumes a drooped position the habitual position of the shoulder is one of constant strain on the structures which stabilize the joint.

When poor postural habits are corrected, the head of the humerus is held in the glenoid cavity by the ligaments alone and no undue strain is placed on the muscles. The glenoid cavity then assumes such an angle that the head of the humerus can rest on its lower lip and thus further relieve the strain on the muscles attached to the greater tuberosity.

JAMES K STACK, M D

Ghormley, R K Low Back Pain, with Special Reference to the Articular Facets, with the Presentation of an Operative Procedure J Am M Ass., 1933, Ct, 1773

The articular facets must be regarded as the only true joints in the spinal column. As they are true joints, hyaline cartilage covers their surfaces and synovial membrane lines their articular capsules. The articular capsule is more redundant and loose in the cervical region than in the lower portion of the spinal column. The pains are often static, that is, they are relieved by certain postures and greatly evaggerated by others.

The degenerative changes which occur characteristically in hyaline cartilage may be seen in the articular cartilage of these facets, together with the eburnation of the underlying bony trabeculæ. This degeneration may go on to complete loss of the cartilaginous surface and irregular hypertrophy of the margins similar to that in advanced stages of degeneration or hypertrophic arthritis of other joints

There is evidence in the literature that, by some, the facets have been regarded as causes of sciatic The author believes they cause not only sciatic pain, but also lumbosacral pain with or without sciatic pain. Most patients who complain of pain of sudden onset low in the back which is brought on by some activity often trifling in its severity, but usually involving a twisting or rotary strain of the lumbosacral region are probably victims of the "facet syndrome" Proof of these changes is in many instances difficult to secure, but much aid in establishing the diagnosis will be derived from oblique roentgenograms of the lumbosacral region Before operative treatment is decided on, the surgeon must be certain of the joints to be stabilized or the result may be poor The combined lumbosacral and sacroiliac fusion described by the author has proved much more satisfactory than any other type of operative procedure

Freiberg, A. H., and Vinke, T. H. Sciatica and the Sacro-Iliac Joint J. Bone & Joint Surg., 1934, 711, 126

Freiberg and Vinke believe that sciatica is rarely caused by narrowing of the lumbosacral space. They

admit that narrowing is frequently observed with agmit that narrowing is arequently mose recommends scattica but state that they have found it also in the sciance nut state that they have found it also in the absence of scianic pain. They say the have thus ausence of sciatic pain. They say lie have thus far encountered no case in which sciatica and lar encountered no case in which sciatica and natio ed joint space were found without at the native en joint space were journe at the stereoscopic same unic presenting a durine in the streascope with the sactor of arthritis change in the sactor of the painful side the painful side the painful side the sactor of the sacto They bele e that mac joint of the paints side. Into bete e that such an arthrite process probably this a relating effect upon the faments thus permitting abnormal. notion with increased ) in limitation and pain and total form and increased in the increase motion with increased) inclimitation and pain and that quite frequently while the disability appears to be of recent one a satury of the history will to be of recent ong n a study of the misory

vegi aligues of the state of the straight leg rateing test which has hitherto the straight leg ruising less which has minerton been used to demonstrate scratic pa n in connection nith the accominac joint may be more reasonably with the sacro-siac joint may be more reasonable; is a plained by the fact that the pyriormis muscle is e plained by the jact that the pyrnomis muscle is the only one \ hich has a ery intimate anatomical the only one i nich has a ery intimate anatomical relationsh p with the sacro il ac toint and the sciatic relations in with the saction as joint and the senant nee on the ner e. The authors anatomical studies on the ner e the authors anatomical studies on the cadaver demonstrated that during the straight leg cadaver demonstrated that during the straight its raising test the sacrotuberous ligament and pyrifor raising test the sacrotuperous ugament and pyritor nis muscle particularly are put under tension long inis muscre particularly are put under tension 100g before stretch ng of the sciatic nerve occurs. There uerore acrecen up or the acquate nerve occurs of fore it is poss ble to consider the mechanical effect of fore it is pos one to consider the mechanical execution pressure on the sciatic nerve as the result of conpressure on the sciatic nerve as the result of con-t moons spasm of the pyriform's muscle which thusous spasm of the pyritorm, muscle which intritation 3 due to its close relations to the intritation of the sacro-interior of the pathonog car changes in the sacro-mae so he authors admit that this explanat on of sciatic ban in authors admit that this explanation of sciatic pain h association with disease of the sacro that your lacks association with d sease of the sacro use to nt seese direct proof but they believe it a correct from theory suggests that the relief obtained 1.3. theory suggests that the relief optimized from manipulative procedures for scrate pain may be due manipulative procedures for scrate pain may be due. manipurative procedures not seek. Union may be one to the release of adhes as between the pyriformismuscle and nerve sheath rather than to the stretch muscle and nerve speain rather than to the stretching of the nerve trunk and that an operation on ing of the nerve (runs and that an operation of the hyrnforms at its trochanteners) the tendon of the pyrnorms at 13 trocasutern might be attempted n cases of very obstinate scratic pain LC Co over M.D.

# G ilman M Des ochondertes f ele Pas illo in Culturan M Case with Multiple Capitals at in Cultural Capitals and Case with Multiple Capitals and Capital

The auth r re news the history of our knowledge of osteochondut's and related diseases fep physes, or osteocomming and results unresults the cases of and ossification centers and reports the cases of and ossumes on centers and reports the cases of osteochondr its of the patella. The first case re osteochonni iis oi ine pareiia ine ursi case re ported by Gellman, was of the simple primary type ported by the main was of the 5 mpic primary type involving the patella slone. The patient was a six involving the patent alone in patent, was a life year old boy with netermittent pain and weakness in the knees but no h story or plus col findings to the first of the story of plus col findings to the first of the story of plus col findings to the first of the story of plus col findings to the story of plus col in the anees out no history of purs en the local or ind case seeming redness of a rise in the local of general temperature. Roentgen ray exam nation re general temperature Appenigen ray exam nation revealed a typical ragged tragmented patella with vicased a Cop cal ragged fragmented pateus with agrees of les ened density and incomplete ossiticat in areas on less enco gens cy and incomplete ossincat a Rest in bed for seventeen days without support e nest in oea for seventeen days without support e heved the symptoms. A follow up roentgen ray neved the symptoms A lowow up roentgen ray exam nation (wo years later showed that the parent had regained its normal structure but was larger than normal t the child a sale

The second case reported was that of a twel e The second case reported was that of a twee emular year old day whose primary symptoms were similar to those in the first case. Roentgen ray examination to those in the first case Koenigen ray examination confirmed the clinical diagnosis of patellar osteocountmen the chinical diagnosis of pateilar osteo-chondritis and showed irregularities at the osteochondritis and showed irregularities at the ostro-chondral borders of the lower epohyses of each chondral borders of the lower ep physes of each femur While the objective findings were bilateral lemur While the objective undings were busters of the symptoms pointed only to involvement of the right knee was immobilized. After the right knee his knee was immounized. After three months all tenderness had disappeared and three months an tenderness had disappeared and roentgen ray examination showed restoration of the roenigen ras examination snowed restoration of the patella. However shortly afterward symptoms PARTIES HOWEVER SHORTHY ARTERNATED SYMPTOMS OCCUPRED At the point of attachment of the tend not occurred at the os calcis and a little later over the neumes to the us tibial tubercles T servative methods

# Chormley R K Mirkin B R and Bray E A Comparison of the American State of the American St

The roentgenological disgnosis of tuberculos s of the tree from arthritis of a non tuberculous type ine since from artificials of a non-tuberculous type remains a difficult problem despite recent ad ances rema as a dissourt problem despite recent ad ances in techn que and interpretation. In the very early cases to the said interpretation in the sect facting for a given time there is probably more to be seen tor a given time there is probably more to be seen in the roentgenograms in the non tuberculous than in the roentgenograms in the non tuberculous than in the tuberculous type. In cases of short duration in the tuperculous type 4n cases of sum; ourselful by pure syno is tuberculous sill be manifested by pure syno an tuperculous will be manutesien by hanness of synowial thickening and sometimes by hanness of synovial increasing and sometimes by natioes of the so nown will be found with about equal fre dneuch par keneral parmers occurs less often duency our general natiness occurs ress onto statistical crossion is suggest or or information but is seen also in the non inderrulous 13 fe. Margini

is seen also in the non tupercusous type. Justician upping watery does not exclude tuberculos s colous variety does not exclude tuberculos 3 of hone of the name and interruption of the 1th he preserva occur in both types of the disease. ccur in point types of the disease has be rod is more not fine point space o er a long per od is more t a of the joint space o er a 1008 per od 15 more 1 Lely in cases of tuberculosis it s often noted in

Lety in cases of tuberculosis it 3 often noted in non tuberculous cases To tuberculous she are so to not tuberculous cases To tuberculous and bone freatest destruction both in cartalage and bone tuberculous cases to entire control or many and I in non tuber control to many cases. greates destruction ooth in cartuage and hope may be either central or marginal. In non tuber chors cases it is practically shraps central Atrophy of pone is seen in post varieties in a fixee biobotion of cases and roentgenograms of the tuberculus Joints may show sufficient destruct on and hyper hours may suow and deny desirate of a Charcot lout orny to a music the ficture of a Charlot min.

In the cases of both types destruction is ad successful discussion.

an distriction is often impossible. Abore ses of and ansunction is often impossible. Above set of the bone and sequestra are defin to indicat one of tuber. colosis but, ha large percentage of cases sequestra curveis our na large percentage of cases sequestra t uspic early cases in which laboratory data are naore earry cases in which industries data are es ent al for the determination of the type of divase es ent al for the determination of the type of divase. es cut at for the electerminar on or the type or cursored the recent genogram offers little impetus toward the the roentgenogram ouers into impetus toward in saving of the pendulum to one side or the other in sning of the periodium to one side or the other. In moderately advanced cases [d eae t may off r greater and to the d agrooss

A comparison is made between the roentgenogram and the gross and microscopic pathological specimens in sixty-five cases of tuberculosis and eleven cases of non-tuberculous arthritis of the knee joint In a large percentage of cases the roentgenograms accurately demonstrate the pathological lesions, but, because of the similarity of the two processes, they cannot be considered in most cases as dependable diagnostic evidence The principal shortcoming of the roentgenogram is its failure to demonstrate the early pathological changes in bone or synovia and the presence of areas of sequestration The principal advantage of the roentgenogram is the demonstration of bone lesions which may remain hidden beneath more superficial disease of the synovia or beneath structures that appear normal

## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Pochintesta, A Bone Tuberculosis and the Method of Robertson Lavalle (La tuberculosis ósea y el metodo de Robertson Lavalle) An Fac de med, Univ de Monte ideo, 1933, XVIII, 487

The author discusses the development, scientific basis, technique, and results of the Robertson Lavalle operation

The theory of the operation is obscure and does not conform to the accepted principles of pathology Cure is supposed to be effected by resolution, no account being taken of fibrocalcareous encystment or remineralization The "hyper.emic strangulated focus" is inconstant and may be present in nontuberculous processes It may be confused with congested marrow Its roentgenological determination is extremely difficult. In fact, Pochintesta admits that even after minute study of hundreds of roentgenograms made with Robertson Lavalle, he is unable to find or define it, and he considers it an illusory and fugitive lesion. He states also that the difficulties of implanting the graft in the strangulated zone, provided this zone can be localized, are at present insurmountable

Pochintesta has collected sixty reports of this operation, chiefly from the Argentinian, Italian, and French literature Sixteen per cent of the patients were cured and 12 per cent were benefited Of forty-four patients operated on in Uruguay, 15 per cent were cured and 18 per cent were benefited

Two postoperative stages are recognized The first, which lasts for from four to six months, is characterized by immediate and absolute cessation of pain and general improvement. Immediate rehef of the pain is a characteristic result of the operation, but a sedative effect would be obtained by any decompression. Canalization of the bone without the insertion of a graft would be sufficient to produce it. The theory of autogenous vaccination through the medium of the graft is being more widely accepted as an explanation of some of the beneficial effects of the operation. In some cases the first stage of the postoperative period is followed by a relapse

The statistics are therefore not an absolute index of the results of the operation. They show only the results of inaccurate technique or deliberate modifications. Ultimately great advances will probably be made in this new field when its problems have been put on a scientific basis. The value of these methods lies at present in the obscure but effective action of the graft in the vicinity of a tuberculous lesion, which aids calcification, modifies trophism, changes the circulation, and intensifies the factors of defense. The method has opened up new problems for the investigator and surgeon. The operation can hasten cure considerably if it is done at the proper time and followed by correct after-treatment.

The article is supplemented by roentgenograms, diagrams, and an extensive bibliography

M E MORSE, M D

Koch, S. L. Complicated Contractures of the Hand, Their Treatment by Freeing Fibrosed Tendons and Replacing Destroyed Tendons with Grafts Ann Surg., 1933, xxviii, 546

Infections in the hand follow the tendon and muscle sheaths and the worst damage is found where the exudate has been under the greatest tension, as in the digital tendon sheaths and under the anterior annular ligaments. In attempts at surgical repair it may be necessary to shorten a tendon, as for example, when flevors become fixed in a relaxed position during acute infection. On the other hand, if the tendons have been contracted during the infection they must be lengthened to restore function. Stiff joints must be well mobilized before tendon surgery is done.

Several specific cases are reported. In one, the flexor pollicis longus was enlarged and adherent to the base of the proximal phalanx of the thumb, preventing complete extension at the interphalangeal joint Freeing this tendon and covering it with fat resulted in normal function In another case, the flexor profundus of a finger in fixed flexion contracture was found seven months after the injury to be adherent to the flexor sublimis at its bifurca-When this adhesion was relieved surgically the contracture was cured. In a third case the sublimis tendons to 3 fingers were sacrificed to allow room for the profundus, and the distal fragment of the latter was sutured to the proximal fragments of the sublimis and the profundus combined According to Bunnell, the loss of the sublimis tendon is hardly noticed Five other cases with more extensive disability are reported with details of the technique of treatment and illustrations

Tendon grafting is necessary for the bridging of gaps caused by extreme contracture of the proximal fragment of a severed tendon, for cases in which infection has caused so many adhesions around a sutured tendon that it is impossible to free them and obtain a workable tendon, and for cases in which there has been complete destruction of a tendon. In the finger the bed is prepared for the tendon graft by removing all scar tissue and fragments of the old

tendon Tle author prefers free exposure by lateral inc sion to the tunneling ad used by some surgeons Find to end suture of the graft to the tendon is the method of choice. It is better to attach the distal end of the graft directly to the bone after removing the d stal fragment of the torn tendon. On the distal the d star tragment of the torn tendon. On the data pinaisha hastead of trying to drive the small point for attachment, the tendon graft may be looped around the back of the bone and sutured to itself on the palmar side For a gliding mechanism the tendon paimar sue for a graing memanism are removed graft when removed from the foot is taken with its State when removed from the 1000 to caken with the

nurrounding account tissue intact to preclude the necessity of wrapping with fat from another source An annular lig ment must be recon tructed at the econ I phalanx and at the middle of the pr ximal phalans The may be done by wrapping a free rendering the new tendon graft around the phalans including the new serious grant around the phasana menuming the new grafted tend n and holding it down to the bone granted tend it and noticing it down to the some Strips of the sublimis tendon may be used instead

In order t make as easy as possible the pr cedure of attaching the tendon graft to the distal phalans of account the region grait to the distait pristans and of constructing new annular ligaments to hold of a free graft it in its bed when ten on is put upon it the author tion in a definite or let. After the temains of the tion in a definite or let. tion in a definite or ier affect the remains of the scarced tend in his e been completely excise the evalues cent in the executionspiecesy excess the state of the distalling place and attached to the distalling t grait is (a), in place and attached to the free end of the gralt and passe! through the tunnel left by of the excision of the scar tissue over the pr smal the excision of the sear cissue over the pr ximal phalanx and out through portion of the proximal pusions and our through the D lmar inc on With the graft laid smoothly the p imar inc on with the grait tail amouthly in the finger and held there by slight tensi n on its in the imper and help there by sugar term is on the free end the new annular lig ments are constructed When they are c mpleted it is possible by putting tension in the proximal end of the graft to see rension a the procurate end of the ha ebeen exactly ho well they funct on an I if the has ebeen sutured under the proper degree ( tens, n sutured under the proper degree ( tens n the first r nest siet is losure of the incis ons in the ting t The proximal end of the graft is then sultured to the tal end of the ten lon in il e palm. The t nal step

is cl sure of the acision in the palm After the proc dure the finger is put up n mode late if you and the wrist is more becoming

The rt cle sh sed naseries f o ca estreated by the autho or on his he pital ser ces. The pa by the autho or on his no phase of the two years tents ringed in acciron two to se entry two years flexion The a erage Se ent se en or in mere maie for a rage period of hospitalizati n was eighteen and four period of nospitalizati it was egiteen and sour tenths days. In 5 recent cases the a erage period rentina mas and stream has annety six d s In only or physical energy was during as an our of the or ases was no impro ement noted Complete restoration to normal fun ton cannot be espected in such cases, but the effort is north expected in such cases out the ellori is worth while if a perfectly stiffinger can be given enough

mot n to r nder amputation unnecessary or a to a much amputation unnecessary the pulling. The chief causes of failure are infection, the pulling out of nsertions into bone fbross and adhesions out or ascribins into bone 1 oros 3 and adhesions of grafts to surrounding tissue and adhesions or of graits to surround ng tissue and adnesions or ank-) los s in joints. The attitude of the pat ent is

an important factor It is obvious th t a patient an important factor it is contous in t a fattent will be ea much better result than one who desires will no ea much perfer result than one who desires motion to be minimal in rider that he may obtain maximal francial compensation. It has sometimes maximas : names somprisoned as the someones been obser ed that results which were not cry encouraging when the patient left the surgeon's care pecome much better with subsequent use of

the fager o er a period of years WILLI M IR HC CL & M.D.

McCauley J C Jr and helds A Early Treat ment of Equinu in Conf. nitsl Cl b-Foot ment of Equinu in J Suf 1933 3 4 4

The authors stress the importance of adequate correction of equinus in club-foot and of the the treatment with particular reference to the 'al e f

subcutaneous tenotom) and capsul tomy Treatment of congenial club-foot should be started as soon as possible ! frst correcting the staticu as soon as possible i first correcting the varus and using the tendon of Achilles an I posteror varus and using the conduct of the work against. Br ankle structures as resistance to work against. Br weekly, stretchings the position of the sole line is weren) stretchings the position of the sole life is gradually changed from in ers in toe ers on and the long axis of the foot from adduction and in ard d splacement of the forefoot t abduct on and out ward displ cement. When the er-correction has ward displicement. When in 3 er-correction has been obtained the tendon of 1 billes and postering ankle structures are stretched to correct the equin 5 deformity Every precaution should be taken to as of injury t the structur s of the foot and fa to and a injury interstructures of the 1 we and pa use ularly to the sain. The number of s tungs required warres from four to sixteen acc rd ng to the degree vacces from our to sixteen are to nk to the arrive of deformity and the re-stan e and structure, the foot and should proceed a rap dly as po ble d plaster of Paris ban lage is applied o er a thin laser of cott n flannel bandage and replaced by adhe re of core it mainter bandage and replaced by auto-re-plaster when the angle between the dorsum of the foot and the leg becomes too acute [ r the plaster toot and the iek becomes too acute; t the master of Paris dre, ng. At this time daily stretchings at r-corre t n has been obtained

home shoul I be instituted when crinical recorrer a nas oven obtained a lateral roente nogram is made with the foot in a cateral roems; nogresin is made with the cool in complete dorsal flex n in a large percentage of complete dorsal fies n in a large percentage of ca es t will be f und that the correct on is ant nor to the os calcis and astragallis, while these structures to the os carcis and astragams while these structures remain in equinus. The authors rec mmend subentrations tenotoms and cabant t m as a control tentration and the annual tentration and the annual tentration and the second det il n the t eatment | I nder general anisch a net in the ceatment comes keneral angeling a subcutaneous achill tom with district angeling a subcutaneous achill tom with district angeling and a subcutaneous achill tom with district and angeling a subcutaneous achill tom with district and a subcutaneous achill to subcutaneous achillation achillatio a superisancous acmit tom with a 12 in 1 leone, to 2 in 1 leone. and ligamentus structures s performed Thward and agamenique structures a permitter of during pressure on the sole of the foot is minimal during the pressure of the sole of the foot is minimal during the pressure of the sole of the foot is minimal during the pressure of the sole of the foot is minimal during the pressure of the sole of the foot is minimal during the pressure of the sole of the foot is minimal during the pressure of the sole of the foot is minimal during the pressure of the sole of the foot is minimal during the pressure of the sole o pressure on the sole of the took is m. ma near outling the procedure an idorsal fit n is poled as far posteriori as po the long the sole. As much correct n as 19 perm tied b the circulat on s maintained preferably with the plaste My the end of a week anoth rst thing without

anasthesia is din and the foot again examined. anasinesia is din and the toot again examined, with the roentgen ray with the roomigen ray and renigen sam had us should then dem natrate tru correct on ( the saousa then aem nistrate tru correction to the equipment of the foot sitten hild in the extreme of er

injury distinct from ordinary fractures As a rule there is a tearing fracture. Only in the semilunar bone are small fragments observed after direct For diagnosis, roentgenograms from fractures various angles as well as stereoscopic views are The small fragments rarely heal to the bone, but form pseudo-arthrotic unions

The article contains a large number of roentgenograms showing the site and type of fragmenta-

tion occurring in individual bones

Clinically the small fragments cause comparatively slight and only transitory distress senous and lasting pain, and not rarely permanent disturbances, are caused only by injuries of the semilunar bone and the trapezium In injuries of these bones prolonged rest is necessary, whereas in injuries of the smaller bones brief rest followed by physical therapy gives satisfactory results

The authors believe that many of the so-called accessory carpal bones are merely healed pseudo-E KOENIG (Z) arthritic fragments

Schnek, F The Roentgenological Diagnosis of Fracture of the Scaphoid Bone of the Hand (Zur roentgenologischen Diagnose von Kahnbeinbruechen der Hand) Zentralbl f Chir, 1933, p 1954

Fracture of the scaphoid bone of the carpus is common Delay of recognition and non-recognition of this injury are due to faulty clinical examination and improper roentgenological methods The usual dorsovolar view with the wrist in extension is not satisfactory as in this position the hand is in slight volar flexion In this position the scaphoid is in a somewhat volar-flexed position, the fracture line, which is usually vertical to the long axis of the bone, 15 seen in an oblique direction, and even a rather wide fissure may be almost invisible If the hand is placed on the cassette in the position of a fist, it is somewhat dorsally flexed and ulnar-abducted, the scaphoid bone is visible in its entire extent, and the line of fracture is seen distinctly. For the side view semi pronation is often advantageous as the scaphoid bone is thereby brought out on the plate in its entire length and without overlapping shadows of the neighboring bones VON TAPPEINER (Z)

Jepson, P N Traumatic Backache J im M Ass , 1933, c1, 1778

The lower part of the back is a shock absorber and the pelvis and lower part of the spine are ruggedly built According to Chamberlain's method of computation, the male pelvis is normally capable of only from one-half to one-third the mobility of the normal pelvis of the non-pregnant female However, involvement of the pelvis causes much more discomfort in the male than in the female, and because of his occupation and more frequent exposure to trauma the male is more apt to suffer from traumatic backache than the female

According to Ryerson, younger patients are more apt to have mechanical instability than older patients, whereas older patients have an arthritic process which renders the joints more vulnerable to traumatism

Sprains of the back are very common symptoms may develop at once or not until some time after the accident. The usual cause is external violence or stretching due to unnatural strain or stress

Traumatic back injuries are most frequent in the lumbar spine, next most frequent in the cervical spine, and least frequent in the thoracic spine

The chief symptom of traumatic backache is pain As a rule there is a history of a blow, strain, or fall If the condition is primarily muscular, the pain is intensified when the involved muscle or muscles are strained When the back is moved in a certain direction the pain is increased and muscle spasm occurs In most cases standing is very painful. In others, the patient is unable to remain seated for any considerable length of time and any position he assumes is uncomfortable. Often there is discomfort following coughing or sneezing

In most low backaches caused by traumatism there is, in addition to pain, a definite list away from the affected side with referred pain in the posterior aspect of the thigh on the side opposite the direction toward which the pelvis lists Back bending is limited in almost all directions, but particularly in a direction away from the side of the pelvic list

Among the tests devised to determine the site of the low back pain is forcible compression of the sacro-iliac joints, which will often elicit pain in the

affected joint

In the test used by Gaenslen the patient is placed flat on his back with the thigh and knee of one lower extremity fully flexed and held in this position by the patient The other lower extremity is held fully extended, and pressure is made on the knee

Another test consists of forcing the leg into flexion, abduction, and outward rotation causes pain in the sacro-iliac joint involved

Roentgen-ray examination in traumatic backache is usually negative unless there is an associated arthritis In the great majority of cases of back injury, pain or tenderness is present in one or both sides of the lowermost part of the abdomen This region is supplied by the hypogastric and ilioinguinal nerves which, in addition to supplying the lower part of the abdomen, send sensory filaments to the buttock

In the differential diagnosis of traumatic arthritis of the back a fracture or a pre-existing hypertrophic arthritic condition must be ruled out. The treatment must be specific and definite and follow a regular plan

The prognosis as to recovery is good provided associated abnormal conditions are corrected Among the latter are foot strain and focal infection

In the treatment given by the author the patient is placed on a fracture bed or, in home treatment, a suitable modification thereof, and Buck's extension is applied to both legs. If the Buck's extension ments Haggart urges early reduction followed by

proper splinting

The anæsti tic of choice at the Lahey Clinic in the treatment of such fractures in elderly persons is avertin With the patient lying on the fluoro copic table traction and countertraction are made and the musction of the radial fragments is broken up With the traction maintained the fragments are then moulded into alignment by firm pressure of the operator a thumb pas ed distally over the dors m of the patient's wrist. The hand is placed in the position which best maintains the abgument and the normal anatomy of the joint and is held by the operator while an as istant applies a sugar tongs plaster splint. The split is applied to the elbon forearm wrist and han I and bandaged in place with gauge. It is so constructed that it nermits complete flexion in all it terphalangeal and meta carpophalangeal joint but prevents pronation and supination and provides anteroposterior immob l ization of the radius and ulna

The patient is instructed to u e his fingers con stantly and shife the sum over the head at least six times daily. The spinit may be adji ted as neces say by cutti g the game bandage if the saelling increases or i ghtening it when the saelling recedle is left on for from five to seven a cell fithing the properties of the same of the same of the increase of the satisfactory page of the same and and both measures and active exercises in berunrad and both measures and active exercises in berun-

PUDOLPH S REICH M D

Tol do P S Subtotal Ret olurar Dislocation of the Carpus Bilateral I es ons (L va n su t tal ret lunar d leap L stonblat al) C ug oloby y our old 1923 t g

To and a h li wears before the case reported was seen by the author the pattern sustained legisless of both wrasts as the resul of a fall on the hyperce tended hand. Ile had been treated unsuce setsully for fractures of the fower end of the rad! He had marked loss of function symptoms of ner compression and atrophy of the forearm muscles Reentgeograms showed almo t telent call essons in both was a ramely fracture of the scapbond bone and of the edges I the articular surface so the rad! I porsal dislocation if the os ma num and anternor dayple ment of the semilurar b ne

The tight wist was ope ated upon first and the left win I niteen dave like? Through a dorsal inciss in the fragment of the supposed semilinar and conceilors been were excised the or may number in left to articulate with the rad us. After the clays of immobilization if slight extension physical therapy was begon. The rest is were very good

In carpal lessons a cl areal diagnos s is diffult and roer tgen ray esam nat in of both wrists is indispersal e. I terup sterior and lateral roentgeno grams should be t ken

Tra ture of the scaphoid is character ed by symptoms of sprain of the wrist with the maximal manifestati n in the anatomical snuff box. In old case it is suggested only by an increase in the thickness of the external carpal column. The tracture usually occurs in the medial part of the bone Displaceme t of fragments is absent or sight

Subtotal d slorati n of the carpai bone is fire quent. The condition must be differentiated from bipartite scapboid. The fracture must be reduced if possible and the wrist immobilized for six weeks between flexion and extension. If reduction is impossible the fragments must be extracted.

Subtotal retrolunar del cation of the carpus is characters ei by displacement of the os magnum behind the semilinar bone. The dorsal d slivetime ith or without enucleation of the serul nar bone depending on whether the anterior radiol nar ligament tears or not The enucleated sem lunar bone frequently rotates no degrees around the anterior radiolunar ligament as an axis. Pain and loss of function are marked the wrist becomes round and symptoms of nerve compression often develop. At the base of the third metacarnal the normal depression is obliterated by the head of the os magnum. In recent cases, especially those with symptoms of nerve compress on reduction should be attempted immediately. If the attempt fails as is frequently the case the semilunar bone must be surgically replaced or extirpated. In old cases extrepation of the seaphord bone semilunar bone and sometimes the cunciform hone is necessary

W R. MARTINEZ M D

Kuechel W. The Treatm at of Fractures of the Carpal Bone Late Results (Ucher d E Fandiung der Handa urzelb-usche Nachunter uch unge riget mas ) Mue chen med Hahneld 1933 19 1350

Follow up exam natious made by the author show that the frequency of incurres of the cargal boness not sufficiently recognized. In cases in which the suburys assumed to be a simple agreen and a rocal gen examination is not made improper treatments in given and the fracture is recognized too late. In most cases there is a fracture of the exploid and preliman bushton. Incurred of a cargal bone with preliman bushton.

Fractures of the carpal bones require absolute immodalization obtained by roman of a plastic cast or a dorsal plaster splint. In simple cases the immodalization should be continued for a spend of three weeks an 1 in complicated cases for as fong as five weeks an 1 in complicated cases for as fong as five set weeks. Per nin cases of imnocent looking distortions of the wrist fa fure to make a rootspending the case of the continued of the continue

Ernst M and Roccum it W Fragmentation Chips from the Carpal Bones (Ueb r Abspring ung a an den Handwur eiknoch a) Deut chs Zisch f Ch 1933 ctrlu 438

On the bas s of ninety cases the author discusses the occurrence of chipping of the carpal hones as an injury distinct from ordinary fractures As a rule Only in the semilunar bone are small fragments observed after direct For diagnosis, roentgenograms from there is a tearing fracture various angles as well as stereoscopic views are The small fragments rarely heal to the fractures

The article contains a large number of roentbone, but form pseudo-arthrotic unions genograms showing the site and type of fragmenta-

Clinically the small fragments cause comparation occurring in individual bones tively slight and only transitory distress serious and lasting pain, and not rarely permanent disturbances, are caused only by injuries of the semilunar bone and the trapezium In injuries of these bones prolonged rest is necessary, whereas in innunes protonged rest is necessary, whereas in in-luries of the smaller bones brief rest followed by physical therapy gives satisfactory results

The authors believe that many of the so-called accessory carpal bones are merely healed pseudo-

The Roentgenological Diagnosis of arthritic fragments Fracture of the Scaphoid Bone of the Hand (Zur roentgenologischen Diagnose von Kahnbein-bruechen der Hand) Zentralbl f Chir, 1933, P Schnek, F

Fracture of the scaphoid bone of the carpus is common Delay of recognition and non-recognition of this injury are due to faulty chinical examination and improper roentgenological methods The usual dorsovolar view with the wrist in extension is not satisfactory as in this position the hand is in slight volar flexion In this position the scaphoid is in a somewhat volar-flexed position, the fracture line, which is usually vertical to the long axis of the bone, IS seen in an oblique direction, and even a rather wide fecure was be almost provible. If the hand is wide fissure may be almost invisible If the hand is placed on the cassette in the position of a fist, it is somewhat dorsally flexed and ulnar-abducted, the scaphoid bone is visible in its entire extent, and the line of fracture is seen distinctly For the side view, semi-pronation is often advantageous as the scaphoid bone is thereby brought out on the plate in its entire length and makent availables chadous of the length and without overlapping shadows of the peach borns have

# Traumatic Backache neighboring bones

The lower part of the back is a shock absorber and the pelvis and lower part of the spine are Jepson, P N ruggedly built According to Chamberlain's method of computation the male columns according to capable of only from any half to another the mobility of of only from one-half to one-third the mobility of the normal pelvis of the non-pregnant female However, involvement of the pelvis causes much more discomfort. discomfort in the male than in the female, and because of his occupation and more frequent exposure to the first from posure to trauma the male is more apt to suffer from

According to Ryerson, younger patients are more to have machanish metabolity than older traumatic backache than the female apt to have mechanical instability than older

process which renders the joints more vulnerable to Sprains of the back are very common traumatism

symptoms may develop at once or not until some time after the accident. The usual cause is external violence or stretching due to unnatural strain or

Traumatic back injuries are most frequent in the lumbar spine, next most frequent in the cervical stress

spine, and least frequent in the thoracic spine The chief symptom of traumatic backache is pain As a rule there is a history of a blow, strain, or fall If the condition is primarily muscular, the pain is

in the condition is primarily muscular, the pair is intensified when the involved muscle or muscles are mensured when the back is moved in a certain direction the pain is increased and muscle spasm occurs In most cases standing is very painful In others, the patient is unable to remain seated for any considerable length of time and any position he assumes Is uncomfortable Often there is discomfort followin most low backaches caused by traumatism

there is, in addition to pain, a definite list away from the affected side with referred pain in the posterior aspect of the thigh on the side opposite the direction toward which the pelvis lists Back bending is limited in almost all directions, but particularly in a direction away from the side of the pelvic list Among the tests devised to determine the site of

the low back pain is forcible compression of the sacro-liac joints, which will often elicit pain in the

In the test used by Gaenslen the patient is placed flat on his back with the thigh and knee of one lower extremity fully flexed and held in this position by affected joint the patient The other lower extremity is held fully extended, and pressure is made on the knee

Another test consists of forcing the leg into flexion, abduction, and outward rotation

causes pain in the sacro-iliac joint involved Roentgen-ray examination in traumatic backache is usually negative unless there is an associated arthritis. In the great majority of cases of back injury, pain or tenderness is present in one or both sides of the lowermost part of the abdomen region is supplied by the hypogastric and illo-inguinal nerves which, in addition to supplying the lower part of the abdomen, send sensory filaments

In the differential diagnosis of traumatic arthritis of the back a fracture or a pre-existing hypertrophic to the buttock arthritic condition must be ruled out ment must be specific and definite and follow a

The prognosis as to recovery is good provided associated abnormal conditions are corrected regular plan Among the latter are foot strain and focal infection

In the treatment given by the author the patient is placed on a fracture bed or, in home treatment, a suitable modification thereof, and Buck's extension 15 applied to both legs If the Buck's extension

makes the patient unusually restless the weights makes the listicut uniqually resuess the weights are raised for half an hour from time to time. The are falsed for any any hour from home for a change of 450 bos tion put as a rule is kept on his back in order pos tion but as a rule is kept on his back in order to obtain the maximum amount of positive support to oursing the maximum amount or positive support and trimobilization. This position is maintained for two weeks. At the end of that time a plaster of the support of the s

two weeks At the end of this time resume on The Pans cast is applied with the patient resume on The modified Golddhaut hyperextension frame mounes communate applies down to the knee on

The store of the receiving pain.

By holding the back in hyperestension the may in the property of the propert the side of the referred pain position acquired a h le the patient is lying in bed is

maintaines approximately

After the patient has become accustomed to the

After the patient has become accustomed to the

accustomed of the same accustomed on the same accustomed to the same accustomed on the same accustomed to the same accustomed on t maintained approximately and as he becomes stronger the periods of freedom and as ne pecomes stronger the periods of freedom are gradually increased. The cast is usually kept are grauuany increased. The case is usuany sept. on for two neeks and in some se ere cases for three. on for two weeks and it some see eases for faller the back is strapped with adhesive tape A back the nack is accapiled with adhesive take to pace prace or corset made from measurements previously taken is applied o et the strapping. The adhesive taken is applied of er the strapp us and then re tape is left on for four or five days and then re

tape is jeft on lor lour of use uses and applied arrangement of two weeks the letters as a section of the section of the use of two weeks the letters are used to be left massage is given. At the end of two seess the subsection of the series are subsection to the series are seed and mild exceesed in begin processed in the series are gradually increased in Seventry and scope.

Armory F Sa A M D seventry and scope.

Meder cker K
Traumatic tojuri s of the Hip
Occurrence
Treatment and End R sults on
A Treatment and Lind R sults on
A Treatment and A Sults on A Su seventy and scope Occurrence Treatment and End R sults on the Board of Institutional Material During R Period of Tay Sears (De can mat sch m.) und at Tay Land of Thu in Tay Land of Thu in Ground in the Board of Thu in Tay Land of Thu in Tay

This is a report on 102 cases of hip injuries includ ams as a service on some cases or my injuries menuring fractures of the neck of the ferminal simple disloca ing tractures of the neck of the feature of the trans or central dislocations n the feature of the tions or central uniocations of in rescure of the pel 18 injuries of the soft parts and their sequelar per le superies se crea vers estecchondres guen si pped epible, ses coxà vars estecchondres guen llis coxà esid sprains de competit patient vas llis coxà esid sprains de competit patient vas ss pped epipoyes and vasa unacommunication for the list coare and sprains. The youngest patient vas four years old (slipped epiphysa) and the oldes four years old (slipped epiphysa) and the oldes of the four control of the fou your years our tampien ep paysis) and the femur) of the twentieth year of age epiphyseal separa up to the twentiern year on age epipoysea, separations predominated whereas fractures of the neck of the femut and dislocations were less common or the tenur and a sucations were less common Dislocations with the different types of fracture Dissociations in the uniform types of reaction the pelvia were most frequent bet een the trentieth the person were more trequent per een the twentieth and fitted hyears of age. Fractures of the nock of the and tiluth years ol age fractures of the neck of the feath year (56 feath) were most common after the first by year (56 feath). The majority of the feather had been accounted to the feather account of the neck of the feather when accounted the neck of the neck of the feather when the neck of t makes to remains the femily which occurred the femily which occurred a fracture of the neck of the femily which occurred at an advanced age and in many mistances was at an advanced age and to many mistances was a femily of the factors response by the new sense of the new sense and the sense and caused by a fall. Of the factors respons the 1 fitte injury according to the statements of the patients injury according to the statements against the hip most common near blows against the hip most common near blows against a fitter control of the control of t trochanter or buttock and falls on these parts. In

the cases of miners they were crushing against a wall tne cases of numers tury were trushing against which a fall on the hip and buttock from a considerable a ian on the oil and outlook from a considerable be got with the legs extended crusting by scadold he got with the legs exicuted crushing of stauna ing or earth the bl w of a heavy object of the h ps ing or earth the bi wor a nearly object on the payant of a feating the litting of a heavy load with the hips peut and tors on of the neavy with the rips bent and tors on of the body. For separation of epiphyses a cry triding canse, was sometimes sufficient. D slocations esbecirally central disjocations with se etal terefaces of the below occurred only ander great force the person occurred unity under great forces of the

The majority of the injuries were tractures or the second of the femulation of the hospital inmediates were the found to the hospital inmediates were brought to the hospital inmediates were 55 patients were accident. ately after the accident the 35 others were admitted from several weeks to several years after The outward rotation characteristic of the nury The outward rotation characteristic of the nury was especially fractures of the neck of the femur was especially pronounced in the pertrochanteric crush fractures pronounces in the petricipaliene cross institutes. The old cases showed a high position of the trothe one cases showed a nigo postion of the tro-chanter a positive Trendelenburg sign, coxx vara, I'm tation i'mo ement especially of abduct on and internal rotation, and pseudarthross. In impacted internal formion and pseudatories a tringented fractures without dislocation there were few symbol fractures without dislocation there were few symbol.

sometimes even after se eral days

meunies even after se erat usys Roenigen examinat on is indispensable. It gies normation regarding the course of the fracture) ne unormation regarding the course of the racture of and n old cases it shows the type of d splacement and the changes in the head and need of the femin In the cases of b teous with old minites who enter the hospital because of pa n and d fi culty in seg. h. pearing and loc mot n, the treatment should be pearing and not more a treatment about the conservative. In cases of recent injuries with disconservati e in cases of feech injuries with marking the conservation of the conservat placement request on shown or under under these a and a plaster d essing applied in cases of recent fractures with impaction or no displacement recent (ractures w in impaction or no mophiscines) is noted only the application of a plaster distance is under sary. In the cases [ ld patients with a pseudar sary.] sary in the cases 1 to patients with a pseupat throsis treatment with a brace 3 indicated The

intosis treatment with a orace 3 indicates and allow its 2 cases of old injury in which a hip author tes 2 cases of the injury in which a my plast operat in by Lexer's method was done in one at the rem val of a deposit of bone contained in the other with containing part and in the other with the other with containing part and in the other with one wan from valid a deposit of some substantial point and in the other with satestomy. For case, of po rl) h aled f acture of the neck of the femur or po 11) a area 1 accure ut inc neck of the found tion On the other hand he recommends the plastic uon Un the other usua ne recommends (ne prasuc operation by L yer's m thod e en for old persons operation of 1 xers in those en for our persons of it the are healthy. In the cases of parents who it one are nearthy in the cases of par curs was come fo treatment soon after the act dent he use come to treatment soon after the acc dent he uses the Wi tra n pro dure in upscred fractures the upscrede training to the wind the broken up if the patient is a major trained and wind the fracture then reduced and study and winds. oup curon sno in de oroken up it the patient is a sturdy not you all the fracture then reduced and around the fracture their reduced and a plaster dressing applied on an extension table a pleaser circas my applied on an excession applied on an excession applied on an excession as the normal leg as far as the while incorporation of the normal teg as far as the to the re learned severe cases which were treated each the healing period ranged from five to see months particularly to the secondary particularly as regards are recognition and result particularly as easierly at factory of company for word and the secondary of the particularly as easierly at factory to the particularly as easierly at factory of the particular treatment of the particular tr the capacity for wo has entrein at assection, bith nihe c ses flab rees nd th se of persons. o in n the c ses 1 tab rets nd in se of pressure.
of the higher age groups who were injured n ac or the lighter age groups 400 were injured and could be the compensation who nit was awarded could be the compensation who nit was awarded could be the compensation who nit was awarded to the compensation who nit was a warded to the compensation who nit was a warded to the compensation who nit was a was a warded to the compensation who nit was a warded to the compensation where the compensation who nit was a warded to the compensation which was a warde

cuent compensation we not was awarted count be disc nt nu d after two years. In hip plastic

operations a favorable end-result cannot be expected until after a period of years and continued aftercare Even patients with pseudarthroses can be

rendered fully capable of full work

Among the cases reviewed there were 17 of dislocation Just as in the cases of fracture of the neck of the femur, there were cases in this group also which came for treatment several years after the accident. In a case thirteen years had passed Reduction was done under anæsthesia. When the Kocher and lever methods failed, reduction was effected by traction from behind and inward rotation In cases of suprapubic dislocation it was accomplished by simple traction The reduction maneuvers used in old cases were the same as those employed in cases of congenital dislocation of the hip In cases of recent central dislocation extension treatment was given for five weeks and followed by immobilization between sand bags. Walking was not allowed until after six or seven weeks. In cases of dislocation poorly healed several years after the injury, plastic operations for reconstruction of the head of the femur, acetabulum, and acetabular roof were done Full capacity for work was restored

There were 13 cases of contusions Sometimes a picture of serious illness is presented in such cases in spite of negative reontgenograms, and if the symptoms do not soon subside chronic and even tuberculous infectious processes may develop as sequelæ Operation was performed in 6 cases Mobilization of the hip joint and subtrochanteric

osteotomy were each done twice

There were 13 cases of slipped epiphysis with consequent traumatic coxa vara. The clinical findings in these cases were rather typical. The roentgen findings depended on whether the injury was recent or old. In 5 cases of already existing coxa vara a subtrochanteric osteotomy was done, and in 1 case a plastic operation on the hip by the Lever method was performed. In 6 cases, non-operative reduction was done under anæsthesia and followed by immobilization in a plaster dressing for seventy-two days. In 10 cases good results were demonstrated by the follow-up examination made after a period of years.

There were 3 cases of osteochondritis juvenilis covæ A history of trauma was determined definitely. Two of the cases were recent. The treatment consisted in extension, the application of plaster, and the use of a brace. In the 1 old case the condition was found unchanged at the follow-up examination. In the 2 recent cases permanent satis-

factory results were obtained

Arthritis may develop after any hip injury regardless of the age of the patient, but is more frequent in older than in younger persons. It is most common after rough treatment methods causing injury to the articular cartilage. The constitution does not play the manifold roles in this condition that have been ascribed to it.

The report shows how, even in the most severe hip injuries, complete restoration of function can be obtained when timely expert institutional treatment is given

A TRAFFICE (Z)

### SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Hua d A Case of Thrombophlebits of the Arm Revealed by Effort Resection of the Throm bosed S gment of the Vein and Denudati not it eArtery Cure (Unc de thromb phile); id nomb speriurte (dep un firt Re cun d gm nt v ur thromb et defo datin tirelle Gudrson) B ll 1 mem Soc af de chr 1011 hr 1409

The patient whose case is reported was a man tury eight years old who stated that after reaching for a telephone with his fet hand he developed weak mess in the hand and arm which was followed by increasing swelling. On his admission to the hos put after aim was cedemotous and purple abduction put after aim was cedemotous and purple abduction and partial he aim was cedemotous and purple abduction and partial and a reaching a reaching

Twelve days after the patient a admission to the hospital the thrombosed pottion of the vein was removed and the arresy denoted. Six days later the hospital the thrombosed pottion of the vein was removed and the arresy denoted. Six days later the felf adde of the head face and neck was edomatous and discolored and there was a painful enlargement of the left internal jugular voin. To relieve the congestion and pain venesceion was done on the external jugular. Anti syphilitie teatment was given remained to the proposed of the proposed of

The author reports observations on the arterial and venous blood pressure in the two arms and the variations produced in the pressure of the cerebrospinal fluid by Queckenstedt's procedure during the time that there was evidence of the thrombosis of the internal usualar ven on the left side.

In d scussing the cause of the thrombit the author states that the slight trauma seemed scarcely enough to produce the condition but it is equally difficult to ascribe the condition to infection or syphilis

In the discussion of this report attention was called to the fact that in such cases there may be an increase in the blood platelets with a corresponding increase in the clotters time of the blood.

in the clotting time of the blood

CADENAT pointed out that infection within the chest is quite possible in such a case

Podkaminsky N A Disturbances in the Cardio a cular System from Arterio enous Aneurism (St ru ge d H gef es v t m nfolge a teno-A cutysma) A h f hi Ch 933

Marse W Poots M D

clas 60

Podkaminsky reports the case of a man who developed a large arteriovenous aneurism several years after a severe injury of the femoral artery. When pressure was applied to the amerism the blood pressure rose from 118/5/8 to 145/5/8 mm | By and the pulse rate decreased from 06 to 70. The heart was greatly enlarged. Marked dyspoxe and or lema vere present. A murmur was heard over all of the valves.

Three months after operation the heart was con siderably reduced in all diameters the patient was able to work and even to go up stars without m ch fatigue the codema had disappeared and the mur

murs had ceased

The author discusses the most commonly accepted theories regarding the symptoms associated with compression of an aneurism (1) the reflect theory (2) the mechanical theory (he cites especially the work of Rieder and Fick.) and (5) the mech moneurogenic theory according to which the interess in the blood press ure is mechanical and the slow ago of the pulse is neurogenic (Gerlach Harke Wachs).

muth Lleinschmidt)

According to the author's theory both symptoms are mechanical A certa n amou t of blood flow directly into the venous system. As a result there i a decrease of the blood pressure in the arte ial system and an increase in the venous system with a distinct venous pulse. An increased amount of blood flows into the right heart under increased pressure. As a result this part of the heart becomes d'lated The minute volume increases. However, as the arterial pressure decreases simultaneously the load on the pressure remains at a le el belo y the normal. Ac cording to Israel this f ct is responsible for a de crease in the tone of the arterial walls an increase in the canacity of the c reulatory system and a con sequent further increase in the demands made upon the heart The output and the contractions of the heart are increased. Dilatation and hypertrophy result. As the regul tion of the pulse is dependent upon the dynamic characteristics of the heat muscle the slowing due to compres ion is caused by overfilling of the heart These hydrodynamic phenomena produced by the compress on of an aneurism resemble the symptoms which the autho has noted in persons who have worked in a bent over position. In such persons there is an increase in the minute volume blood p essure and the trans verse diameter of the heart (cheffy in the left ventricle) The phenomena present an analogy also to the findings of experiments on compress on of the walls of the abdomen The author cites the invest gations carried out by Frey who fou d the arterial pressure increased even after severance of both 'a gus and sympathetic nerves below the diaphragm FRANZ (Z)

BLOOD, TRANSFUSION The Survival of Blood (Ueber das Sovel vrač Ĝaz, 1933, Kovtunovič, G Ueberleben des Blutes)

The author believes that the term, "preserved blood" should be dropped altogether and the term, "surviving blood" substituted for it According to the findings of various investigators, the life of ervthocytes varies from twenty to one hundred and twenty days As yet, no definite criterion of the viability of these cells has been recognized haveonly a certain indication of their death—hæmolysis Blood which shows hæmolysis should not be used Blood which is kept in biological solutions (physiological salt solution, a solution made from seven parts of sodium chloride, five parts of sodium citrate, two-tenths parts of potassium chloride, four one-hundredths parts of magnesium sulphate, and distilled water to make up 1,000 This is used in a proportion of 1 2) survives for from six to eight days at a temperature between 15 and 30 degrees In a 4 per cent solution of glucose with sodium citrate, blood survives at the same temperature for from fifteen to eighteen days The Adjustment

# of the Blood Volume After Transfusion Boycott, A E, and Oakley, C L

Palli & Bacleriol , 1934, xxxviii, 91 A short review of the literature is first presented It has been generally believed that after transfusion of blood into animals, the increase in blood volume is soon corrected by the expulsion of plasma from the injected blood and the animal's blood to provide studies the authors found that after the injection of space for the injected corpuscles blood equivalent to from 40 to 80 per cent of the existing hæmoglobin, the resulting hæmoglobin value was not as high as would be expected if the blood

In a subsequent series of experiments carried out volume had returned to normal by them rabbits were given transfusions of blood amounting to from 50 to 100 per cent of their blood volume Before the transfusion, the blood volume was estimated from normal standards and the total corpuscles, plasma volume, hæmoglobin, plasma protein, and plasma chlorides were determined two, or three days later, the animals' blood was washed out with warm citrate salt solution and the blood volume and the other determinations were re-These experiments showed that there was an increase in blood volume equivalent to the number of corpuscles injected The plasma volume after the transfusion was practically the same as before The authors therefore concluded that the volume to which the animal adjusts its blood is determined by the plasma volume rather than by such factors as There was no evidence of red cell destruction An average of 80 per cent of concentration and viscosity the serum protein injected disappeared from the The blood and plasma blood after transfusion chlorides acted similarly

Accidents in Blood Transfusions Zwischenfaelle bei Bluttransfusionen)

In spite of all precautionary measures, there are occasional cases of injury from blood transfusion in which the complication is not explained satisfactorly by the donor's blood and therefore no certain protection against it is possible The author reports protection against it is possible the author reports one such complication which occurred in about 200 transfusions done in the last year and a half Milder complications, manifested by subacute symptoms such as chills, fever, and mild, transitory jaundice, have also been seen by the author occasionally, but

Recently Keusenhoff saw another severe reaction after a transfusion which was done for an acute, they are not important severe intestinal hæmorrhage. A compatible donor of the same group (A) was used and 1,000 c cm of of the same group (2), was used and 1,000 soll of blood were transfused with considerable salt solu-Preliminary biological tests were negative The transfusion of 100 c cm of blood was followed by severe tenesmus, precordial pain, suffocation, and vomiting The vomitus did not contain blood A transfusion reaction was suspected, but the symptoms might have been due to the very Severe hæmorrhage As the patient was still bleeding profusely and had become unconscious, transfusion was indispensable and therefore more blood was injected pensanie and therefore more plood was injected slowly. The manifestations slowly subsided and the patient showed considerable improvement. On the following day Jaundice developed and erythrocytes, granular casts, and oxyhæmoglobin appeared in the granual cases, and oxynamogroum appeared in the Therefore, although the donor belonged to the same blood group, hæmolysis had occurred Nevertheless the severe hæmorrhage stopped and did not re-appear The icterus faded rapidly, and on the second day after the transfusion the urine became normal In another group determination, which was made with indirect test-serum examination and the roentgen test (crossed agglutination), Group A was found on both sides The author suggests that the disturbances may have been due to the transfusion of too much blood or to an agglutination titer of the donor's blood which was too high for the patient who had been jeopardized by the enormous hæmor-

Another severe reaction occurred in the case of a sixty-two-year-old man who was seriously ill with sixty-two-year-old man who was seriously ill with the chronic pernicious anemia. The hæmoglobin was 35 per cent, the erythrocyte count was 1,370,000, recent punctate hemorrhages had occurred on the legs, and the stools contained blood. The blood group was found to be o After a satisfactory biological test, 1,000 c cm of blood were transfused from a donor of the same group without untoward symptoms However, in the evening the patient had chills, a temperature of 40 2 degrees C, and clouding of the sensorium After two days the condition was improved, the hæmoglobin content of the blood was 55 per cent, and the erythocyte count was 2,360,000 The patient was discharged sixteen days after the transfusion Eight months later he was

re admitted because of increasing fatigue be moglobin was then to per cent the crythocyte namogroum was then 40 per tent the crystocyte count, has a ooo oou and the parties presented was that of typical permicous anomin. After prel mi arry typing (o) a transfusion from another donor of a cross anomin and country typing typing (o) a transfusion from another donor of a cross anomin and country typing (o) a transfusion from another donor of a cross anomin and country typing (o) a transfusion from another donor of a cross anomin and country typing (o) a transfusion from another donor of a cross anomin and country typing (o) a transfusion from another donor of a cross anomin and country typing (o) a transfusion from a country typing (o) a cou nary symme (v) a transitional from another totally the same group was given. Seven hundred and fifty the same group was given Seven number and may cubic centimeters of blood were transfused without reaction. That evening the patient became del. Ous feating that evening the patient became the our and had a fever of 40 degrees C but on the following and date a rever of 40 degrees to but on the following day his mind was entirely clear he was f ce from day his mine was negative and the hamoglobin veset the name was negative and the memographic was 65 per cent. Two months after his discharge he was 55 per cent 1 no months after ins mornaige m was admitted again because of increas no weakness The hamoglob a was then 30 per cent and the erythrocyte count 1350 000 A transfusion of 950 ccm from a donor belong ng to Group O was 930 c. cm. from a doubt become ug to Group o nas given without causing a reaction but at noon the patient had chills and a temperature of 40 2 degree On the following day his temperature was normal and the urine negative Jaundice appeared on the and the unite negative Januarice appeared on the second day but disappeared again after four days section was Jo per cent and the patient and memoration was 30 per tent and the patient was becoming more exhausted. Meer ten days an was occoming more exhausted ther ten data an other transfusion of 1 000 ccm was made f om the other trausiusion of two cent was made out the same donor. The prehm nary test was good and no reaction occurred during the transfusion. Ho vever teaction occurrent unring the transitision. He ever at the end of an hour the pat ent had chills and a temperature of 39.3 degrees C. Later he c. llapsed temperature of 39 3 degrees Latter ne c stapsed with a small pul e and C anosis. The urine was dark with a sman pure and cyanosis are unine was data red and contained or hemogloin and granular reu and contained oxynemogi on and granular aasts Death occurred on the following day with

increasing circulatory weakness Permission for au topsy was refused

This patient was doubtless a very poor tisk. The ints patient was nonuniess a very pour tisk into transfusions were followed by some im nest two transiumous were comoned by some im There was certainly no error in the typing. In the Ancie was certainly no error in the typing in the third and fourth transfusions the same donor was used and therefore the direct test was not made Only the hamotest examinat on and the biological Only the examplest examination and the monographics there done Perhaps the omission of the direct test may explain the hamolysi sudden incompatibility of the donors blood after repeated fransfusions from the same donor. This Trauen observed suggested the possibility that the earlier transfus ons bloqued in the secil ent immane authories aga ust produced in the recip cut difficults authorities and group substances in the donors blood which were injurious. This injury may be avoided by crossed agglutination changing donors in repeated tran fus ons I crhaps the volume of the transfused blood also played a role very large blood transfusions, are n t necessary Many advise very large blood transfusions are n t necessary e pecially in cases of chronic hæmorthage and dis e pensary in cases of curous assumptionage and unserses of the harmatopoietic system. In such cases it eases of the mematopolecue system in such cases in a better to give frequent small tran fusions. Careful blood group determinations are e sential. The direct second group were minatums are seman and received fest should all o be carried out as it reveals err is in test should at o be carried out as it reveals cit is in the indirect examination. With repeated use of the same donor the characteristics of the serum must be determined each time However it is better to use another donor. The amounts of blood transfused ERICH HEM EL (Z)

# SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Van Allen, C. M., LaField, W. A., and Ross, P. S.
The Roentgen Diagnosis of Atelectasis, with Special Reference to the Ground-Glass Shadow and the Degree of Pulmonary Shrinkage

Because of the disagreement with regard to the definition of atelectasis and the absence of pathognomonic signs, the roentgen diagnosis of the condi-

Atelectasis is defined as a totally airless state of tion has not been entirely satisfactory either a part or all of the lung, with collapse of the small airways and alveoli This definition applies to the three recognized types of the condition, namely, the congenital, the obstructive, and the compressive Recently the term "atelectasis" has been used to

include various states in which the pulmonary tissues are partially air-containing, the collapse not being complete, or in which the alveoli are filled with

Pneumonia and atelectasis should not be confused erudate and are not collapsed although areas of atelectasis may develop in the course of pneumonia when bronchi become plugged by the viscid exudate Pneumonia is more prone to develop in areas of obstructive atelectasis that are contaminated with pneumococci than in a similar

Areas of hypoventilated lung should not be classified as atelectasis as they carry on a definite, though normally aerated lung decreased, respiratory exchange, while atelectatic tissues are wholly without external respiration

The characteristic roentgenographic signs of atelectasis are produced by the reduction in size of the affected tissue. The diaphragm on the affected side is elevated and part or all of the mediastinum is displaced toward the involved side At times the intercostal spaces on the atelectatic side are narrowed while those on the other side are widened The spine may show scoliosis with the concavity toward the lesion During respiration the affected side moves less, and the opposite side more, than normally, as evidenced by the excursions of the ribs and diaphragm The mediastinum moves toward the side of the lesion on inspiration, and away from it on Bilaterally symmetrical atelectasis produces none

expiration

These roentgenological features of atelectasis are of the displacements described quite generally agreed upon, but there is considerable variation in the interpretation of the shadow cast shadows have been variously described as homoby the pulmonary tissues themselves geneous, mottled, streaked, slightly hazy, and extremely opaque, but no one has made use of these

variations to differentiate the types of atelectasis or to distinguish at electasis from other conditions pro-

All of these signs have been found in other pulducing increased density of the lung

monary diseases Wu found diaphragmatic elevation in 55 per cent and mediastinal displacement in 12 per cent of cases of pneumonia Manges and Packard point out that fibroid pulmonary tuberculosis produces findings similar to those in obstructive

The authors determined to search for a means of more accurate diagnosis between atelectasis and atelectasis

other lesions causing pulmonary consolidation The term "atelectasis" vas used to denote complete airlessness and alveolar collapse, massive or

Tirst, roentgenograms of excised dog lungs in focal

which atelectasis had been produced by obstructing a bronchus were made and compared with roentgenograms of the same lungs after they had been genograms of the same rungs after they had been artificially reinflated Next, roentgenograms of fresh arunciany remnated New, toentgenograms of item at electatic human lungs of all types obtained at atterestatic numer rungs of an types obtained at autopsy were made, studied, and checked by histoauropsy were made, scuded, and checked by miso-logical examination. Then roentgenograms of the chests of living human subjects presenting these lesions, determined by careful clinical observation, were made The lung shadows of the three groups were studied and compared as to composition It was found that the lung shadow was completely

homogeneous only when the lung tissue was entirely nonlogeneous only when the rung ussue was entirely free from air Even an extremely small amount of air, detectable only by microscopt, is plainly re-

A completely airless lung, consistently gives a omogeneous "ground-glass", shadow if (1) the vealed by roentgenography dosage of X-ray is sufficient to penetrate the tissues and demonstrate their radioconsistency, and (2) the homogeneous shadow of the lesion is large enough to permit discernment of its consistency

The other common consolidations of the lung which are confused with atelectasis cast a definitely heterogeneous shadow because of the presence of residual air While a few other lesions present the ground-glass, shadow of complete airlessness, these can usually be distinguished readily by other signs The relative sizes of affected lobes is of impor-

Measurements by Wang and Van Allen show that a completely atelectatic lobe is very much smaller than normal during both inspiration and expiration In pneumonia the affected lobe is of about normal size during expiration but much smaller than Wu has shown a high position of the diaphragm on the side of a pneumonic normal during inspiration lesion during inspiration but never on expiration, while in atelectasis the diaphragm is high during both phases of respiration

The ground glass shadow is constant in atelectasis unless shadows of irregular density are a sperimposed upon it. In massive atelectasis the area of even density is easily seen. In focal atelectasis the area may be so small as to be obscured but the charactensitic evidences of visicarial displacement are constant.

In pneumona the roestgen shadow of the lung is shways heterogeneous because of the presence of an and visceral displacements due to reduction in the size of the lung are ab ent or limited to the inspiratory phase.

A tuberculous lung also gives a heterogeneous hadow except in caseous areas with are usually small "Guald scattered tuberculous leaous may be deficult to differentiate from focal atelections expendigly it useeral displacements or ur at both inspiration and experition as may be the case in fibrous tuberculous. Under such conditions focal atelections to the conditions for a feet of the conditions for a feet of the conditions for a feet of the conditions of the

Hamorrhagic infarcts produce a motifed shadow although they may cau e vi ceral displacements after

fibrous shrinkage
Pulmonary hypoventilation can be distingui hed
from atelectasis by absence of the ground class

shadow
An extrapulmonary mass encroaching upon the
lung field produces a ground glass shadow unless
lung tis we overlays it but the visceral displacements
are usually not characteristic

When massive atelectasis and another consolidative lesion occur in the same part of a lung the ground glass shadow of the atelectasis obscures the other lesion unless calcified areas or air containing cavities are present

In neoplasms of the lung associated with obstructive or compressive attlectasis the shadows of the two les ons are indistinguishable. In the obstructive type viscorial displacements may be present but in the compressive type they are absent.

Mary E Mathes M D

#### ANÆSTHESIA

Herb I C The Present Status of Ethylene J Am II 4s 933 C 17 5

The author states that undue publicity given the replosive heard of eliphyene is unfortunate as it may deprive patients surgeons and anesthests of a most valuable aneathetic agent. The minimum amount of ethylene in air that is suffammable is 30 aprecent. Tests have shown that explosions can occur only in the dangerous area if the very make and it to the she do the ethilation valve. Safety in the use of ethylene may be obtained by removing ourseast eigenfuent that the safe of the explosion of the property of the control of the

charge may exist. At first a large sheet of steel was placed on the floor for this purpose. Later the flooring was changed to clossonic terral with brass arings. All operating room furnituses seeing some several small brass chains long enough 15 drag on the floor. Since these precautions were taken no indication, of explosion has been seen in over 200000.

anxithems. The au hor believes that ethylene possessed a tinctadwantages over all other anxisthetics especially when it is combined with local infiltration in pelvic operations and operations on the upper part of the addomen. Geograf N. W. Aviert M. D. addomen.

Angeles of C. and Tzorsru S. Considerations on the Mortality in 120 000 Spinos Amerikesiae (Quelqui et ns de strong su la motal de 1 000 rach e the res) Preemed Par 1915 al 1921.

This article is based on data collected by 12 Roumanna suspeos in a juniversity centers and o province alcilinis. The authors point out that spinal amesticas has definite understones and contain understones. They list the contra indications as follows: (1) massive himorrhage shock and anemia (2) beyond in the set lessons with poor compensation (3) bypolen son (4) acute to stemms (intestinal obstituction with tortemis and bypotension uncerna) and (5) septicemia.

The latistics reviewed include all deaths that have occurred drace the time that spinal ansathesis has be nused. The number of deaths was greated in the begoning when the contra und cutions were less clearly understood and the technique was not be good as it is today. Exact intermination of the mortality of spinal annuable as is difficult because of the different techniques used by the surgious in thesis collected by Forque and Basset in 1928 from all or if the world there were no deaths.

In the 20-27 cases rest wed by the authors which represent the combined figures of 2 surgeous there were 38 deaths (1 death in each 3 156 case). In 33 cases the causes of death were as follows cardiovascular collapse 23 cases memnights 6 cases respiratory failure a cases and cystuta tease 7 the time of death in these 33 cases was 36 clows at the end of the mire pasts operations are supported to the control of the control o

The moriality was no higher if it was not lower than that of chloroform anxistes a In a sente of 6 5 spinal anxistesias toduced in children from f ur to five years of age which were recently reported by Balacesco there were no deaths

If the contra indications are considered carefully in each case and the patient is waithed not only during the operation but at least twenty four hours afterward so that advenal in sphedime lobeling or carbon dounder may be administered promptly the martisity can be kept very low particularly since less toxic anæsthetic substances have come into common use and ephedrine is given to prevent hypotension Marsh W Poole, M D

Bakay, L Local Anæsthesia in Surgery (Die oertliche Betaeubung in der Chirurgie) Orvosképzés, 1933, vviii, 586

This is a report of experiences in the induction of 17,000 local anosthesias in the author's clinic

Novocain is the least injurious of the cocaine derivatives. Its wide use is based on the fact that Braun began his experiments with this preparation The author has returned to the use of novocain after numerous experiments. With regard to the recent constant increase of propaganda for novocain substitutes, the author states that such substitutes should be used only if they possess advantages over novocain in all respects or serve better for some particular purpose Percain has the greatest anæsthetic power with the longest duration. It is readily sterilized and is bactericidal. On the other hand, it is more toxic and causes more local tissue damage than novocain Pantocain is no more toric than novocain, is readily sterilized and combined with adrenalin, and causes minimal tissue irritation, but its anæsthetic action is slower, and it increases the tendency to bleed in the field of operation Novocain produces no serious toric manifestations, and causes only transitory cerebral anæmia. palpitation, and vomiting in the cases in which, for some reason, it enters the circulation Tissue damage is sometimes seen after the use of novocainadrenalin solutions, but it is superficial and limited chiefly to the margins of the wound In some cases an idiosyncrasy of the patient such as a tendency toward angiospasm must be considered

In the author's material it was found that when local anæsthesia was used the incidence of pulmonary complications was reduced and the pulmonary complications which developed were much less severe. With regard to the incidence of throm-

bosis and embolism, it was noted that of 9,829 operations performed between 1915 and 1922, thrombosis occurred in 8 (o o8 per cent) and fatal pulmonary embolism in 2 (0 02 per cent), whereas of 8,688 operations performed between 1923 and 1927 thrombosis occurred in 39 (o 44 per cent) and embolism in 11 (0 12 per cent) During these periods the relative frequency of the use of general and local anæsthesia remained unchanged Tatal embolism occurred most often after hernia operations, all of which were done under local anæsthesia. It was next most frequent after extensive operations for varicose veins, all of which were done under general anæsthesia. The author agrees with Tinsterer that the so called operative shock following laparotomies performed under general an esthesia never occurs when local anæsthesia is used and therefore a toxic action must be ascribed to the narcosis. After prolonged operations, acidosis occurs also after local anæsthesia

Premedication with hypnotics does not decrease the value of local anesthesia. Nevertheless, the author abandoned the use of scopolamine many years ago because it lowers the blood pressure. Recently, good results have been obtained with scopolamine-eucodal-ephetonin. Basic narcotics, with the exception of pernocton, are also used.

A needle devised by the author for splanching an esthesia is described and shown in an illustration, also a needle for infiltration of the abdominal wall. Contrary to many surgeons, Bakay has noted no inadequacy of paravertebral anesthesia. However, he states that a certain skill is required for conduction anesthesia. After the abdominal cavity has been opened the pelvic organs are anæsthetized by injecting the solution into the triangle between the left and right common iliac veins. In this way the conduction of the presacral nerve and the hypogastric plevus is interrupted.

An important advantage of local anæsthesia is more careful handling of the tissues during operation Von LOBMAYER (Z)

# PHYSICOCHEMICAL METHODS IN SURGERY

Delling S L sions in the Region of the Face (D & Rocca) Senth p entru nell ch ch d G s chts) 933 The race (De Koent add ch Erk anku g n im Be g D tatio During the nineteenth century it was generally be

During the mineteenth century it was generally be excel that especially large and pa null furnicles and most fluctuating furnicles of the face as well as of other parts of the body should be incided whereas the smaller ones should be prought to ubening phones and the book sugard as and ea matters of the book sugard as and each matter of the book sugard as a ma the smaller ones should be blower to repende by conservative measures such as the application of conservative incessures such as the application of clay and acetic acid compresses During the last clay and acetic acid compresses. Duting the 1431 decades however incr on has been abandoned espe ctally in cases of furuncles of the face and conserva ctany in cases or insurences or the race and conserva-tive freatment (the passive hypersemia of Bier the injection of autogenous blood as recommended by augentum ut autogenous sunon as recommendent sup-Laewen parenteral injections of protein vaccine therapy) has been used instead Also Soon after the superior of the superior their di covery the V rays were employed with suc then or covery the rays were employed with one ces in the treatment of furuncles (Merton 1904) tes in the treatment of urranties (worton 100; Fyler 1907) and their application was recognized Fyler 1907) and their approximation was recognised as a useful 4200 able method a early as 1914 as a useful tavorable method a carry as again (Schmidt). This treatment i followed by general (outline) and rapid subsidence over the softening and rapid subsidence of locording to quies sortening and rapid supplies to coording to Schreus, (1920) irradiation is of great importance

On the basis of an experience of years Heidenhain Do the basis of an experience of years Heidenhain and Fried in 1924 recommended \( \text{Tay 1 radiation} \) or the treatment of pyogenic infections of all 19 pes for the treatment or program unections of an ispession to the face one radiation is usually suff cent to cause central softening of the focus of infec cient to cause central something of the totals of mice ton and subsidence of the orderna. Of fourteen cases tion and substitutive of the face which had not been t eases or antiques of the date which had not been t coled excellently. In seven others a good result was distinctly evident Death occnited only in the cases in which an obe attou had notinetal a soon team was morning a second team of the second octutica only in two cases in water an ope attorated been performed previously elsewhere. The minimal superficial dose was 10 per cent and the maximal superioral dose was 10 per tent and the maximum thems do e but the authors believe that 10 per cent of the skin er. of the skin ervthema dose is most dependable Emmench obtained healing of furnicles of the face at the latest after three o four days by triad atom ar the latest accept three of the skin erythems dose with the with one truth of the sain et submitted those with the use of a hard filter. In 1910 Fined recommended to rash the average of the tirrad axes from one to three times at intervals of from six to eight days using a filter of 0.5 mm of zinc or copper plus from 1 to 2 mm of aluminum. He crimed successful tesnits assure at meter of 0.2 mm of since of copper bins from 1 to 5 nm or antininum rie calined successive results in 95 5 per cent of cases of furnicles of the face 4 an up 3 per tent of tases of ubsidence of the pains improvement of the gene al condit on and reso p tion or accelerated resolution of the focus of mee tion of acceptance resolution of the focus of infec-tion. These results have been confirmed by many roentgenologi ts (Lukorsky Be ndt kramer Kalk

brenzer Abbatı Leucutta Buzello). Otto has used oreage; Annat bescalta pasenty Otto mas used to the filter of 3 mm considerably larger goses (350 r with a niter of 3 mm A1) with good results. In addition careful nitring and protective therapy are nece say, as was embra and protective inerapy are nece sary as was used especially by Aingreen and Holfelder Heidenhain Schueller and Desjard a have found Hendenmain Schueller and Despare a nave found most succes ful whereas Schreuss early irradiation most succes for whereas observes that the best results a cobtained only who the treatment is given in the stage of full t pen g the treatment is given in the stage of that then general days after the beginning of the infection Linefach obtained the best results from tradistion during the stage of inflammatory inflication. Ught

during the state or imaximatory mutication L gr and Sosman believe that the s xth day is the mo Of twenty nine cases of carbuncle Otto obtained good results in twenty seven In two cases of car good the temple the effect of the treatment apbuncle of the temple the enert of the treatment appeared to be unfavorable (large central necroses prolongation of sloughing and delay of heal ng) According to Seemann a full with irrad atton According to occurring a trial with mead also therapy should be made routinely in cases of furna therapy sugare no mane tournesy in cases or torus cles esp c ally furuncles of the face as long as no un usual Cicumstance demand immediate operation usual circumstance demand immediate operat on the Roentgenological Institute of the Surgical Chine of the University of Leip g radiation with

Canto us the University of Ceip & radiation was given in one or the sittings at intervals of from one to six days. The dose vis issually 30 per cent and occa nally from 40 to 50 descany so per cent and occa and to so per cent of the skin crythema dose. Twenty six pa per cent on the same cryenema cope among as per titlents; the mild or severe furuncles of the face were tients) the initial or severe turnincies of the late were treated. In addition to the X-ray treadiation and the S. Iliz lamp and coverne with the S. Iliz lamp and coverne with the S. Silvy Jamp and covering with an inactic eor a mild ribefactor, either of salve was used. Under this certment incipient furuncles were always re costinent implient turtuncies were kinways in absorbed the pain was quickly releved and the temperature fell to normal a from twenty four to forty eight hours The 1 radiation had no untown d torsy eight mosts the transition had no untone of effects. In a large number of cases the healing Process seemed to be definitely accelerated While ecutrences were not p evented their re ab orption was brought about qu ckiv by early renewed; rada tion of twenty six cases apid complete healing ton Of twenty six tases and comprete meaning at tracity favorable in

fluence was apparent in five In fou (one of the decese the condition was inductived only sugarly One patient with a carbuncle of the upper hip died one patient with a carpuncie of the upper a from pyzemia three days after the irrad atton The incidence of successful results is given by Heidenbain as 97 per cent by Seemann as oo per Acqueumain as 97 per cent oy Seemann as 100 per cent by Lakt as 97 per cent by 100 per cen per cent by F led a 9 5 per cent and by Baensch

In Conclusion the author describes experiments can dout to study the biological course of heal ag ARTHUR H VIZZ (Z)

#### RADIUM

Holthusen, H Comparative Researches on the Action of Radium and the Roentgen Rays (Vergleichende Untersuchungen ueber die Wirkung von Roentgen- und Radiumstrahlen) Strahlentherapie, 1933, xlvi, 273

In a comparison of the action of roentgen and radium rays three variables must be especially considered the different wave lengths, the duration of the action of the rays, and the spatial distribution of the doses So long as it was impossible to measure the gamma rays, like the roentgen rays, in r units, the doses of roentgen and radium rays capable of producing the same amount of injury to the cells of ascaris eggs were used as the basis of comparison of erythema production Scarcely any difference was found in the degree of erythema produced by doses which had shown the same cell-injuring action in the experiments After it became possible to measure the gamma rays in r units with the aid of a photographic method, comparative experiments could be made on this basis

While the erythema from roentgen irradiation was more distinct at first, the erythema from the third wave of radium was about 20 per cent more marked Observations of the epilatory action showed a slight advantage in favor of radium Experiments on ascarıs eggs showed almost equal results with roentgen and radium rays, with a hardly appreciable difference indicating that the effect of radium was the stronger When roentgen rays were used, an influence on the course of the injury curve from quanta of various sizes could not be established No difference in the action of quanta of different sizes could be found even when this was investigated in the smallest spaces, in the chromosomes of the cell The form of the injury pictures remained the same whether the ascaris eggs were treated up to the same degree of injury with beta, roentgen, or gamma rays, whereas a marked difference between

the action of ultraviolet and roentgen rays was noted. The experiment therefore provided no basis for the assumption of a difference in the mode of action of radium and roentgen rays. The action is quantitatively proportional to the number of electrons formed. However, the time of application of the doses is of great importance.

The total doses which lead to erythema when the afflux is from 0 5 to 500 r per minute are reported Curves for the production of the erythema of epidermitis sicca, the tolerance dose, and the epilation dose are presented. The less the intensity of the irradiation, the larger the dose essential for the production of erythema Whereas tolerance, erythema, and epilation doses approach one another more and more closely with high intensities, they run far apart with decreasing intensities The epilation curve is the flattest Cumulation is greatest in the hair papillæ A further illustration shows how these curves would meet with Mutcheller's dose in infinity It is important that the doses producing erythema and connective tissue injury deviate to the same degree as the epilation and erythema doses This deviation is responsible for the change in the quality of the action of the irradiations with the intensity What applies to protraction applies fundamentally also to fractioning

From clinical observations it may be presumed that continuous irradiation with low intensity gives the best therapeutic results. On the other hand, the disadvantage of the non-homogeneous spatial distribution of the dose of radium is of great advantage. It permits the administration of extremely large doses to very small areas. The great advantage of radium lies in the possibility of spatial concentration of the action of the rays and contact irradiation in addition to the possibility of continuous irradiation with low intensity. The determination of the best temporal conditions for influencing the disease focus will yield the best results.

BRAUN (Z)

## CLINICAL ENTITIES—GENERAL PHYSIO MISCELLANEOUS

LOGICAL CONDITIONS

Tittel D. The D. elopm nt of So Call d Carles in ter D. The D. elopm nt of So Call a Cartes to conclusions

From his studes the author draws the f Moning

anciusions
1 Defects of the crowns of teeth found in dermoid c) sts of the oranes are not due to true canes but are phenomena of resorption

2 With regard to the genesis of these resorption phenomena there is no difference between a tooth phenomena there is no unicrence octaven a tourn found in a dermoid cyst and a touth in the mouth In both, there are mesenchymal reactions which an count core are uncorneryman scarrous when dender physiological conditions (milk teeth) and ander Pavsological conditions (retention) cause the bard pathological conditions (recention) Cause the marq substances of the tooth to undergo resorptive

3 The the ries previously advanced to explain the resorption processes occurring in oral teeth (the the resultant processes occasions in our area ten-so-called inflammatory theory, the foregn body so-caned minimizatory theory the foregn body theory and the implantation theory) must be refected as explanations of the causal genesis of these phenomena. They are insufficient to explain the repnenouncia (ney are insuli cient to espiran toe re sorption processes observed in either oral teeth or retn Iouna in dermoid cysts

4. Wherever a tooth is formed resorption proc

A herever a too in is formed resorption processes occur when the physiological equilibrium be essex occur nates the prosinguest equiumina ne it teen the mesoblast and the parablast is distu bed at centure incompared and the parameter is usin been unfavorably for the parablast. A possible cause of resorbtion processes in a booth conta ned in a der resorption processes in a courn contained in a cer-mond Cist is a distrophy of the parablast setting up the ussue reactions of the vascular connective the treatment of the vascular connective tissue which cause disintegration of the hard sub stances of the tooth

ances of the tooth
5 According to the findings of histological 5 According to the manufes of decomplication the resorption processes occur g in a tooth contained in a derinoid Out occu, before penetration of the tooth into the lumen of the cost Therefore the decalcifying action of the acids present a the 50 st contents cannot be the primary cause of the defect. The possibility that decalcificate a 50 are uncertainthe possibility that decalculate a so produced may act secondarily to enlarge a defect at eady present must be admitted theoretically but in the case reviewed this action was not observed

Wankin W. R. and Wel h. A. M. The Ch. micel Man W K and Net h A M The Ch micar Analysis of New Grow the Correlated with Their

The author determined the sodium p tassium calcium-chlonde and nitrogen content of neo

plastic tissue to see whether an outstandingly high Presunctions of any one or all of these ions occurred Contentration of any one of an of force for occurred.

The pathological nature of the Lationa new growths. And paramogram nature of the latious new growing was carefully determined by both qualitative and was calcular uncermined by ooth quantitative methods. Small pieces of the tumor itssue were embedded and sectioned and the re tissue were embedded and sectioned and the re mainder used for chemical analysis. By cutting manner user tor commerca analysis are curing sections of uniform thickness and then counting

from 50 to 100 fields in each section, the percentage from 50 to 100 news in each section the percentage of tumor tissue could be determined fairly accurate tumor tissue coura ne decem neu tarriy accurate As the growing neoplasm 13 accompan ed in 11s by as the growing acomasm is accompan to in its growth by latious other tissues such as vascular stroma and inflammatory tissue the non neoplastic stroma and innaminatory cases the non-respective tissue must be considered in the estimation of the tassue must be considered in the estimation of tamor tassue. Further difficulties are announc or tumor throne current our curies are encountered when it is desired to compare the reencountered when it is besured to compare one re-sults of chem cal analys s of neoplastic its ne with satts of chemical analysis of neopositic his ne ma-those of chemical analysis of co esponding normal those of coemical analysis of to esponding normal tissue. The spithel all new growths cause the least tasue Ane efficient at the Man sine cause the new and difficulty in in a respect because they arise form an

al eady highly, specialised tissue. Sarcomata fre quently arise from connects et assue The second part of the article gives a summary 1 Note done to recent 3 cars which and cates that the Nork (toge to recent 5 cats nor in musicus to a to a sunder di cussion have a cry definite phisco I as unager at cussion have a cry ununice parismo themical role mod fring the properties f the

chemical role moon tring the properties I too searc matter of the cell The colloidal P otoplasm of the cell is able to re create its complex them cal of the cents and also to change is composition with reference to a basic element such as nitrogen After reviewing the collo dal chem stre of the cell the anthor states that to a la ge extent the properties of action states that in a is greatent the properties of tion of salts both with n and outside of the cell but at present we cannot know what propo tion of out at present we cannot know what proportion of 1 ns 5 (1thin and ) hat p operer in 15 outs do It is

possible to gr c only an analysis f the tis ue as a whole together with its pathological analysis who h indicates the varying types of tissue present in the specimen examined Increased cellularity in to the specimen ecompanied by an increased potassum scueras is accompanied of an increased polarion content a fact substant ting the view that potas toutette a ract ausstant ting the view that points in the cells of the tissue The mo e rapidly growing tumors tend that a And the concentration of potess um than the m re sonly growing tumors Likewise tumor cell show an increased concentration of mirrogen in the

mineral cont at of ind vidual tumors of diffe ent types and of the same type g marked anath n 18 found. In the sen's of breast tumors the sodium and hier de content are approximately the same n

The amounts of chloride potassium calcium sodium and nitrogen and the p oportions f tumor someth and meregen and one p operations cells fibrous tissue and other types of cells in va us kinds of tumors are given in tables and the

pathological findings in 29 cases are summarized Clarence C Reed, M D

Murray, J A The Bearing of the Experimental Induction of Cancer on Our Conceptions of Its Nature and Causation Glasgow M J, 1934, CLM, I

The author has confirmed the work of Jensen which indicates that if the cells of newly transplanted tumor material are disintegrated before their introduction, no growths are produced. This observation supports the theory that parenchyma cells constitute the essential part of a mahignant new growth, and that the peculiar properties of the tumor are due to cellular differences between the parenchyma cells and the corresponding normal cells of the body. Whether the growth is a mammary carcinoma, a squamous-cell carcinoma of the skin, or a spindle cell, a melanotic, or a mast-cell sarcoma, each strain remains distinct in structure, cell form, and rate and habit of growth

No structural or functional difference has been found which separates malignant new growths definitely from the corresponding normal tissues of the body. The difference is that of behavior which is progressive growth continuing as long as the bearer lives and, as transplantation experiments show, is apparently unlimited. The peculiarities of behavior of new growths and their emancipation from the control which holds the elements of the body together as a fairly harmonious whole may be brought about by the combined action of more than one functional derangement working together to produce effects greatly in excess of the sum of their individual consequences.

M. Herbert Barker, M. D.

#### DUCTLESS GLANDS

Kennedy, F S, and Fisher, J H Syphilis of the Pituitary Body 4m J Syphilis, 1934, xviii, 12

The authors report a case of syphilis of the pituitary body discovered in the course of a routine autopsy procedure The subject was a woman fiftyeight years old who had suffered from acquired syphilis manifested by positive physical and serological findings over a period of years. No clinical evidence of pituitary disease had been noted. Death occurred suddenly, and autopsy was performed three hours later The surface findings at autopsy consisted of multiple healed cutaneous "tissue paper" scars over both arms and scattered diffusely over the trunk, and palpable right cervical, axillary, and inguinal lymph glands The aorta showed a syphilitic aortitis. On section of the brain an extensive hamorrhage was found to have torn completely through the right internal capsule and to have extended into, and filled, the right lateral ventricle with clotted blood The right thalamus was partially torn across and displaced laterally into the lateral ventricle The hæmorrhage had torn through the septum lucidum, extending into the left lateral ventricle The pituitary body was not weighed It

appeared to be of normal size and contour Grossly, no abnormalities were noted. There was no distortion of the sella turcica.

Microscopic examination revealed syphilitic aortitis and gummata of the liver and pituitary body Approximately, one-third of the anterior lobe of the pituitary body was involved by a gummatous process This consisted of numerous miliary gummata, most of which were conglomerate, forming confluent areas of newly formed tissue Toward the periphery of the lesion, however, small isolated gummata were observed. The lesions extended to a point near the pars intermedia, but the pars intermedia and posterior lobe were not involved. At one point the gummatous process extended outward almost to the capsule However, the capsule was intact The gummata were composed of collections of epithelioid cells with no evidence of caseation Narrow zones of lymphocytes surrounded most of the gummata Many quite large, well-formed giant cells were found in the gummatous area. In the involved area nearly all of the acinar tissue had been destroyed and replaced by newly formed tissue which had increased the bulk of the pituitary body little, if any

As diabetes insipidus is the most common clinical manifestation of syphilis of the pituitary body, a Wassermann test of the blood and spinal fluid should be made in cases of diabetes insipidus most common manifestation is the syndrome of dystrophia adiposa genitalis Sometimes this has been present with diabetes insipidus \ \arious other clinical manifestations such as hypophyseal cachevia, special ocular signs, deformity of the sella turcica, hypotonia, symptoms of pituitary tumor, and mental disturbances such as agitated depressions and unstable emotional reactions have been recorded Syphilis of the pituitary body has frequently been associated with syphilitic lesions of the basal ganglia, spinal cord, and meninges In congenital cases, infantilism and dwarfism have been observed There may be an intimate relationship between intranasal chancres and syphilis of the pituitary body

Thirty-six cases of acquired syphilis of the pituitary body which were confirmed by autopsy and nineteen cases in which the diagnosis was based on chinical findings only are reviewed from the liter-

found

The treponema pallidum has very rarely been demonstrated in the pituitary body in cases of acquired syphilis. In cases of congenital syphilis it has been found there much more frequently. In the case reported by the authors no attempt was made to find it because the tissues were fixed before the syphilitic nature of the condition was recognized. Sections stained for the tubercle bacillus failed to show its presence.

ature Thirty-four cases of the congenital type were

The importance of routine studies of the pituitary body at autopsy in all cases of syphilis is stressed

CHARLES BARON M D

Belogorodskii 5 Jarathyroid Glanda According to von Oppel The Clinical Features of the Material (D Kl k de Ep th ikoerp dem Mater al von Oppel) lere Axeni 23 Chr 1933 h n nach

This article is a short resume of a quite large number (at least twenty eight) reports of clinical number (at wast twent) cignic reports of a mea-investigations on the phys opathology of the para thy rold glands which were carried out following the lead of von Oppel The investigations began with measurements of the blood calcium in surgical tuber culosis Since in most of the cases a fall in the blood calcium was demonstrated von Oppel tried to com bat the fall by the subcutaneous implantation of bone Special control experiments (Schm dt and Obrazcov) demonstrated that such implants cause an elevation of the blood calcum and therefore ex an elevation of the obood care in and therefore ex-plain the beneficial local and general effect of the Whee operation Achutin and Andrejev determined that sepsis p oduces a marked d sturbance of the calcium balance and parath) rold function. This ob calcium parance and paratifyrous innerious arms on servation explains the use of calcium therapy in servation expiants one use of carcium sucrays in lar changes in the blood calci in which resulted in

delay of callus formation in hypoparathyroid and detay of cause conditions of in hypoparathyroid and hypocal amic conditions. Under such cond tions injections of bone meal and parathyroid transplants injections of some mean and paracogroun transplants have proved benefitial. In latent spasmoph ha and nave proven oener that in meent spasmoph ha and fully developed tetany bone implants and farathy rod transplants have been employed with good re to a statisficants mave been employed with good re-sults by many of von Oppel's pup is. Lone implants suits by man) or von Opper's pup as trone impiants (boiled beef bones) may be used with good results also as prophylaxis in cases in which total extirpa tion of the thyroid is done for carcinoma

If ypercalcamia shown by you Oppel to be the cause of anhylosing polyarthritis is being combated by him and his pupils by numerous parathyroidec oy nam and me pupis by namerous posternyrous tomies. Although the ankylosed joints do not be come movable again the beginning stiffening is in

Von Oppel had assumed that parathyroid! netion to a opper nau assumed come parachyrous, mesons is regulated by the adrenal hormone Recent expen ments have convinced him that injections of adrena hin have no definite influence on the normal calcium p cture. However, a low blood calcium will be r gu party raised an I an abnormally high blood calcium will be regularly lowered by such injections

# BIBLIOGRAPHY of CURRENT LITERATURE

NOTE-THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS Issue on Which an Abstract of the Article Referred to May Be Found

# SURGERY OF THE HEAD AND NECK

#### Head

Cirsoid aneurism of the scalp A G Smith Brit M J,

Cyst formations of the skull J CHOROBSKI and L DAVIS Surg, Gynec & Obst, 1934, lvin, 12
Fibroma of the base of the skull T BAJKAY Or-

Voskepzes, 1932, xxii, 730 Skin lesions of the face L Trow Canadian M Ass

J , 1934, xxx, 57 Fractures of the mandible C H MACK and J H CON-

NELLY US Nav M Bull, 1934, XXXII, 31

The treatment of cases of fracture dislocation of the head of the mandible K Post Zentralbl f Chir, 1933,

Isolated traumatic fractures of the condyloid process of the mandible R LEFMANN 1933 Hamburg, Disserta

Differential diagnosis of large cysts of the jaw M Ass

Sovet Chir, 1933, 1v, 234

Chronic osteomyelitis of the mandible with an impacted tooth, aggravated by extraction of the tooth G BAGGIO Policlin, Rome, 1933, xl, sez prat 1099

Carcinoma of the maxilla and ethmoid E D D Davis

Brit M J, 1934, 1, 53

Melanotic sarcoma of the right maxilla (malignant epulis) Γ H B NORRIE J Laryngol & Otol, 1934, Thr, 49

Three cases of submaxillary lithiasis P Roques Rull. et mcm Soc nat de chir, 1933, hx, 1386 [401]

The eye in relation to modern industry W H SNYDER Ohio State M J, 1934, xxx, 29

Lead poisoning in the first century W J RUTHERFURD

Brit J Ophth , 1934, xviii, 36

Three cases of arachnodactyly with ocular signs E F King Proc Roy Soc Med, Lond, 1934, XXVII, 298
An optometer J D M CARDELL Proc Roy Soc

Med , Lond , 1934, xxvii, 303

The testing of visual acuity C E FERREE and G

RAND Am J Ophth , 1034, 7VII, 29 Problems in the physiology of visual acuity F H

ADLER Arch Ophth, 1034, vi, 6
Visual sensation produced by feentgen and radium rays S R GIFFORD and E E BARTH Arch Ophth, 1934, x1, 81 [401]

The first medical refractionists H TRIEDENWALD Arch Ophth , 1934, x1, 67

The mechanism of the cross cylinder H R HILDRETH Am J Ophth , 1934, vvi, 39

Contact lenses and their application E V BERTOTTO Rev med d Rosario, 1933, xxiii, 966

Intracapsular extraction in highly myopic eyes. A LISCHNIG Arch Ophth, 1934, 71, 64

Blindness and papillædema in Guernsey calves, a second communication G E DE SCHWEINITZ and P DE LONG Arch Ophth , 1934, X1, 194

Monocular proptosis (left) with retinal changes M L HINE Proc Roy Soc Med, Lond, 1934, XXVII, 300

Increased intra-ocular tension in young persons as a cause of severe frontal headache R L RAYMOND Brit M J, 1934, 1, 102

The etiology of glaucoma STR S DUKE-ELDIR and

LADY DUKE-LIDER Arch Ophth, 1934, XI, 49

Pathological anatomy of the angle of the anterior chamber of the iris and ciliary body in glaucoma B Courtis Rev Asoc med argent, 1933, vlvu, 3434

Pathological anatomy of the cornea in glaucoma

Courtis Semana med, 1933, vl, 1424

Lævo-glaucosan and epinephrine bitartrate in the treatment of glaucoma L T Post Arch Ophth, 1934, vi, 187 Schueller-Christian disease (xanthomatosis), report of a case with postmortem observations J M WHEELER

Arch Ophth, 1934, v1, 214
Sarcoma of the lid C S DAMEL Rev Asoc med

argent, 1933, xlv11, 3442

Xanthomatosis of the orbit, a report of two cases A

KNAPP Arch Ophth, 1934, 11, 141

Preliminary report on orbital tumors G HARDY and

W F HARDY Am J Ophth, 1934, xvii, 18
Lymphosarcoma invading the orbit R J Sissov J
Michigan State M Soc, 1934, xxiii, 21
The ocular muscles, a medical problem A D RUEDE-

MANN Med Chn North Am, 1934, xvii, 1017

Conjunctivitis produced by a ground beetle R N CHOPRA Indian M Gaz, 1934, lxix, 23

The source of staphylococci on normal conjunctiva of the human eye G H Gowen Am J Ophth, 1934, vvu,

Tuberculosis III Phlyctenular conjunctivitis, its relation to tuberculosis as shown by roentgenological and clinical observations in seventy-one cases M Goldstein

and C L Woop Am J Dis Child , 1934, xlvii, 171
Bilateral conjunctival cysts B W RYCROFT RYCROFT Proc

Rov Soc Med, Lond, 1934, xxvii, 301

Forceps for pterygium operation C Brito Rev Sud-Am de méd, et de chir, 1933, 11, 743

Conical cornea complicated by acute ectasia G E

BERNER Am J Ophth, 1934, TVII, 22

Optical treatment of Leratoconus and Leratoglobus, contact lens E Huber Rev med d Rosano, 1933, xxii, 973 Keratitis bullosa W T Davis Am J Ophth, 1934, TV11, 24

Tuberculous keratitis treated by local ultraviolet irradiation F W Law Proc Roy Soc Med, Lond, 1934,

Bilateral necrosis of the cornea following the use of hair dye on the eyebrows and lashes C T MOPAN J Am M Ass, 1934, cn, 286

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Operati e t eatm at I retinal detachm at with electro-c asolati a A Kwapp Arch Ophth 1933 z 733 [402] aguinti n A ANAFF ARIA OPIUM 1955 x 733 [404] Scularizati n f the wh I vitreous in a case of fizer r

y succentain in rine wn i vitreous in a case of ham r backer it is with et done i normal acusty i vis on D V. Gran Britt i Ophth 1934 xvii 4.

Pa ad gli ma A C. Hensov Proc. Roy Soc M d. F. C. Sutter and G. Bennez, Wisconsin M. J. 1934. EXIII 24

Acurous of the cent al ssels f th opt n rve C Resease Re med d Rossino 1933 Ini 957 NESCAMP KC med a ROSATIO 1033 EDB 957

Cyst of the pti n ives and chiasm associated with an pticloma of Raithe pouch. C C COLEMAN and E HILL Arch Ophth 1934 x 4

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Postnasal tumor, a case for diagnosis J C Hogg Proc

The nasal sinuses, the present status of their treatment Roy Soc Med , Lond , 1934, Wil, 214 A B WESSELS California & West Med , 1934, 71, 38 B WESSELS Camornia & West Med, 1934, XI, 38 the importance of roentgenological examination of the nuclear in chronic arthritic parts in chronic part anues in chronic arthritis, with special reference to cases in which the connect are a clear focus of infortion muses in chronic arthritis, with special reference to cases in which the sinuses are a stlent focus of infection R G IN WHICH the Sinuses are a shent locus of infection K G Sylder, S Tyveman, and C Traceger Arch Otolaryngol,

1934, TIX 23
Sinusitis in children R Luongo Laryngoscope, 1934,

A case of suppuration in the right frontal sinus not revealed by the X-rays, sudden death A large abscess in the frontal lobe W M Morthson J Laryngol & Otol,

rionial love W Al Biological January 1934 Viv. 48
A new intranasal operation on the ethmoid sinus L P

The maxillary antrum and its dental neighbor W. A. Mosso, Arch Otolaryngol, 1034, XIX, 40

The diagnosis of maxillary sinusitis by the use of opaque olls R C Beeler and J N Collins J Indiana State M WELLS Virginia M Month, 1934, K, 606

The relationship of diseases of the mouth and general 455, 1934, XXVII, 4 disease L Calirese Rassegna internaz di clin e terap,

disease L Callings | Med 1933, 71, 1101 | Med Ulceromembranous stomatitis | F W LATHROP J Med

Soc New Jersey, 1934, XXI, 38
Vincent's infection or trench mouth J J CRUME

The laboratory diagnosis of oral mycoses F D Weid-

Laryngoscope, 1934, Yliv, 29

AN Laryngoscope, 1934, XIIV, 41

Noma treated early by thermocauterization and antiNoma treated early by Cure P DITHAIT. Rull et
anorrene serum therani MAY Laryngoscope, 1934, vliv, 41 Noma treated therapy Cure P DUHAIL 1404]
gangrene serum therapy Cure P DUHAIL 1404
mem Soc de chirurgiens de Par, 1933, 77, 620
mem Soc de chirurgiens de C Eggers Ann Surg, 1934, [404]

Cancer of the mouth C Eggers

Cancer of the XCX, 69

XCX, 69

A second primary cancer in cases of cancer publity to buccal mucosa A mathematical study of susceptibility to buccal mucosa A mathematical study of Med, 1933, [404] buccal mucosa New England J Med, 1933, [404]

Causes and prevention of failures following operation for Chirurg, 1933, 1, 704 Causes and prevention of failures following operation for bilateral harelip H I KALLIUS Chrurg, 1933, 1, 704

Epithelioma of the lip, with particular reference to the lip, with particular Ann Surg, lymph-node metastases R H KENNEDI Ann Surg,

134, XCIX, 81 WARDILL Brit J Surg, 1933, Cleft palate W E M WARDILL Brit J Surg, [405] 1934, vcix, 81

Contribution to the study of palatine fissures and hare-Contribution to the study of palatine assures and nare
5. E Casella, Rev med Lat Am, 1933, XX, 119 [405]

Frogressive ulcerative reticulosis of the palate I S

TARRELL T LARRED & Ord TOSA Play 27 [405]

rrogressive uicerative renctions of the Pilace
HALL J Laryngol & Otol, 1934, xlix, 35
Cancer of the hard palate, two cases J J Robb

Palatoplasty using extra oral tissues A D Davis MJ, 1934, 1, 103

The diagnosis of tumors of the tongue G JACHVIN Ann Surg, 1934, xcix, 94 The early diagnosis of cancer of the tongue and lip Sovet Vestn Venerol 1 Dermat, 1932, 1, 42

The early diagnosis of cancer of the confect of the Confect of Art Ass, 50 W A Curry Canadian M Ass J, 1934, XXX, 50 Specimen, posterior half of tongue and entire hyoid bone specimen, posterior nam or tongue and entire nyold none removed by median pharyngotomy on account of carcinomatous ulcer J F SIMPSON Proc Roy Soc Med,

The purulent processes in the floor of the mouth and the Lond, 1934, XXVII, 216 deep interstitial spaces of the skull

Deutsche Ztschr f Chir, 1933, ccxl, 681

The nerve supply of the musculus vocalis P SUNDER-Ohrenheilk, The motor supply of the human posterior crico-arytænoid
The motor supply of the human posterior f Hals-, Nasen,

ne motor supply of the numan posterior crico-arythenoid muscle P SUNDER-PLASSMAN Ztschr f Hals-, Nasen,

Ohrenheilk, 1933, XXXII, 586

Two cases of pharyngeal diverticulum

Learner of the cases of the case o

two cases of pharyingear diverticulum Laryngol & Otol , 1034, tlix, 46
Laryngol & Otol , 1034, tlix, 46
Ludwig's angina T Dimitroff
Ludwig's angina

Ludwig's angina i Dimirkorr Sudmic One Jun',
Styre, Pennsylvania, 1934, ill, 106
A tumor of the tonsil H Bianculli Semana med,

1933, vl. 1755
The treatment of malignant tumors of the tonsils
The treatment of malignant tumors of the tonsils

The treatment of malignant tumors of the tonsils AVERESCINSKIJ Nov chir Arch, 1933, TXVIII, 44 K HART VERESCINSKIJ Nov chir Arch, 1933, TXVIII, 44 K HART Metastatic melanosarcoma of the tonsil V K HART Metastatic melanosarcoma of the tonsil, 1034, XXVII, 12 and R H Crawford South M J, 1034, XXVII, 12 and R H Crawford South M J, 1034, XXVII, 12 and R H Crawford Wirginia M Month, 1934, IX, 630 I B H WARING Virginia M Month, 1934, IX, 630 I B H WARING The arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in surgery of the phartage of the arternal supply in B H WARING Virginia Al Alonta, 1934, IX, 030
Importance of the arterial supply in surgery of the phar-

importance of the arterial supply in surgery of the phartyn, with particular reference to the palatine tonsil J.M. Jacob and B. Rooffel Day Acoc med arrent 7020 

VII, 3341 Dissection of tonsils and tonsil stumps R H Good

Dissection of tonsits and tonsit stumps. A II Good Illinois M J, 1934, IX, 37
What can we do to diminish the number of tonsil operations of the property of th vlv11, 3341

What can we up to unmarry the number of total tions? T B LAYTON Lancet, 1934, CCXXVI, 117

E C SARA-A lateral congenital fistula of the neck is C SARA-VIA Bol y trab Soc. de cirug de Buenos Aires, 1933, VIII,

Congenital cartilaginous rests in the neck W B MAT-

Congenital cartulaginous rests in the neck (V. B. Alatters Arch Surg., 1934, xxviii, 59

THENS Arch Surg., 1934, xxviii, 59

Specimen, torsion of a fibroid polyp of the pyriform Specimen, torsion Proc Roy Soc Med., Lond., 1934, fossa J F Simpson Proc Roy Soc Med., Lond., 1934,

Voluminous epithelioma of the aryteno epiglottic region,

voluminous epithenoma of the aryteno epiglottic region, removal by retrothyroid pharyngotomy L Durours, mentel Bull et mem Soc d chirurgiens de Par, 1933,

Carcinoma of the epiglottis M L Forms Proc Ros V LOCATELLI Speritot, 688

Soc Med, Lond, 1934, XVII, 216

enume, 1933, IXXXVII, 039
Lateral aberrant thyroid glands J 4 Lazarus and
Lateral aberrant Ann Sura 1027 Yearn 1027 Studies of the thyroid gland

A ROSENTHAL AND SUIF, 1933, XXVIII, 1023 A RUSENTHAL Ann Surg, 1933, Kevill, 1023 [400]
Anomalies of the thyroid gland in relationship to the radio activity of the water A Marches Rassegna internal dicling terms 1022 21 1728 mentale, 1933, lxxxvii, 639

radio activity of the water A MARCHES (Kassegna internaz di clin e terap , 1933, xiv, 1178 ternaz di clin e terap , 1933, xiv, 1178

The production of serum inhibitory to the thyrotropic hormone J B Collip and E M Anderson Lancet, 1024, CCXXII 76

234, ccxxvi, 70
Perforation of the esophagus with injury to the thyroid rectoration of the esophagus with injury to the myroid gland following the swallowing of a fish bone I Hirsch-1934, ccxxv1, 76

gland following the swallowing of a fish bone 1 Hirsch-Fild Zentralbi f Chir, 1933, P 1790 The basal metabolism in diseases of the thyroid and The basal metabolism in diseases of the thyroid and The basal metabolism in diseases of the thyroid and Thyroid modules in the lateral neck region 1 M Han-Thyroid nodules in the lateral neck region

Thyroid nodules in the lateral neck region J M, Han-[407]

FORD Ann Surg, 1934, XCIX, 354

Leg ulcers due to thyroid dysfunction

Leg ulcers due to thyroid 282

Leg ulcers due to thyroid 282

J Am. M Ass, 1934, cu, 283
J Transplantation of the thyroid in myxœdema
TAGIBEKOV and J GINZBURG Azerbajdžan

The differential diagnosis between hyperthy roidism and Ztschr , 1932, 1/111, 85

postencephalitic syndromes J Tucker North Am , 1934, XII, 939

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Pulmonary abscess cured by pneumothorax REPETTO and E A ROTTJER Rev Asoc med argent, 1033, 7/(11, 3487

The importance of bronchoscopy in bronchiectasis H P MARVIN Ann Int Med, 1034, vii, 003

Lobar atelectasis as a cause of triangular roentgen shadows in bronchiectasis W P WARNER and D GRA-HAM Arch Int Med , 1933, ln, 888

Generalized chronic bronchiolectasis with left basal bronchiectasis P ELLMAN Proc Roy Soc Med, I and, 1934, TAVII, 217

Bronchiectasis and the cystic lung R F VACCAREZZA

Semana med , 1933, xl, 1778

Collapse therapy in bronchiectasis H P NEISON

Bnt M J, 1934, 1, 58

Carcinoma of the bronchus as seen in serial skiagrams C E NEWMAN Proc Roy Soc Med Lond, 1934, XXVII, 219

The formation of an intrapleural foreign body following section of an adhesion by the method of Jacobeus J STEPHANI, T STEPHANI, and R KIRSCH Arch medchir de l'appar respir, 1933, viii, 436

Atypical forms of dry pleurisy, a radiological and clinical study S Brown J Am M Ass, 1934, cii 193

Pathogenesis of pleuropulmonary perforations R JEANNERET and W PROEHIGH Arch med-chir de l'appar respir, 1933, viii, 408

Subcutaneous asphyrial emphysema, complication of therapeutic collapse P Bourgeois Presse med , Par ,

1933, xli, 1981

Roentgen ray observations in fifty cases of pleural calcification Stuhl, Camendron, and Marques Arch med chir de l'appar respir, 1933, viii, 413 [415]

#### Heart and Pericardium

Two cases of cardiac injury S GADŽI-KASUMOV Azerbajdzan med Ztschr, 1032, 1/111, 9

Stab wounds of the heart E G RAMSDILL Ann Surg,

1934, XCIX, 141

Stab wounds of the heart Two cases I REMETEI TILEP Orvosi hetil, 1933, p 880

Removal of projectile from the wall of the heart L

Bukai Orvoskepzés, 1933, xxiii, 324 Myxoid thrombus of the heart C Bacaloglu, C ILIFSCU, and C RAILEANU Presse med, Par, 1933, xli,

Two cases of bacterial endocarditis, acute and fatal TRUHINSHOLZ and MICHON Bull Soc d'obst et de gynéc

de Par , 1933, XXII, 795 A case of calculying pericarditis M Duvoir, E Pichov, and P DE VULPIAN Bull et mem Soc med d hop de

Par, 1933, xlix, 1520

The operation of cardiolysis in adhesive pericarditis with Pick's syndrome M H PIERSOL, G C GRIFFITH, F J O'HARA, and W E LEE Ann Surg, 1934, ver,

152

#### Esophagus and Mediastinum

The venous plexus of the œsophagus, its clinical significance D L KIGARIES Surg, Gynec & Obst, 1934, lvm, 46

The removal of foreign bodies from the cesophagus I STEINBERG Sovet vrac Gaz, 1933, 17, 383

Lesions of the esophagus E N Collins Med Clin North \m, 1934, xvii, 1045

Pulmonary symptoms due to esophageal disease C Jackson and C L Jackson Arch Otolaryngol, 1933,

Bronchiectatic complications of esophageal stenosis L CHABROL and M CACHIN Bull et mém Soc méd d hop de Par, 1933, xlix, 1531

A congenital esophageal atresia associated with multiple tracheo œsophageal fistulæ B Szendi Zentralbl f

Gynack, 1933, p 1534

Tour patients subjected to unilateral operation for diverticula of the esophagus who were free from symptoms at the end of a year STARLINGER Zentralbl f Chir, 1933, p 1539

Peptic ulcer of the esophagus S HINDSE-NIFLSEN Hosp -Tid, 1933, pp 401, 424, 457 [416] Chronic peptic ulcer of the αsophagus Α Γ Hurst [416]

Guy's Hosp Rep, Lond, 1934, lxxxx, 104

Malignant stricture of the gullet Sir R Woods Irish

J M Sc, 1934, No 97, 28

Experimental investigations on suture of the œsophagus after resection R INGEBRIGTSEN Norsk Mag f Lægevidensk, 1933, vciv, 481

Paroxysmal tachypnoea of decubitus in tuberculous adenomediastinitis R C Aguirre and J L Araoz Semana med , 1933, xl, 1863 [417] Mediastinal emphysema W Dick Beitr z klin Chir,

1933, ch ui 59

Successful mediastinotomy in acute traumatic mediastinal emphysema and mediastinal phlegmon P MEYER

Schweiz med Wchnschr, 1933, 11, 931
So called thymic hyperplasia IV A follow-up study of thirty cases G L WALDBOTT and G E ANTHON Am

J Dis Child, 1934, rlvii, 34 So called "thymic death" VI The pathological process in thirty-four cases G L WALDBOTT Am J Dis Child, 1934, Alvii, 41

#### Miscellaneous

Roentgenology in the diagnosis of thoracic lesions R P POTTER Wisconsin M J, 1934, XXXIII, 34

Hernia vera hiatus œsophagei permagna bilateralis M Markas Beitr z klin Chir, 1933, clvii, 623

A case of diaphragmatic hernia B McARDLE Guy's

Hosp Rep, Lond, 1934, lxxxiv, 51

Gaseous intrathoracic cyst accompanied by inguinal symptoms in a woman of sixty-six years R Benda, A Bosquer, and P CHAPIREAU Bull et mem Soc med d hop de Par, 1933, xlix, 1538

# SURGERY OF THE ABDOMEN

#### Abdominal Wall and Peritoneum

Lateral abdominal hernia T REEKE Deutsche Ztschr f Chir, 1933, ccxli, 126

A case of traumatic hernia in the linea spigelii C D BRANDINER Arch f orthop Chir, 1933, XXXIII, 219

Ruptured ventral hernia H M GINSBERG California & West Med , 1934, xl, 49

Inguinal hernia, strangulated, containing a Meckel's diverticulum W WEEKS and O H PFLUEGER Surg Clin North Am , 1933, xiii, 1525

Extensive infarct of the ileum following strangulated inguinal hernia L P Costa and E BAZTERRICA Rev med -quirurg de pat femenina, 1933, 11, 702

Lumbar hernia Plătăreanu, Popescu-Craiova, and PANAITESCU Rev de chir, Bucharest, 1933, XXXVI, 512

Heyd Ann Su g 1934 xc S
Postoperative pentone 1 dh Postoperative peritone i dh ns c us nd pr c i n. A. E. BENJAIN, M nn sota Wed 1934 xu 4

Encapsulating periton ts. Lenormant [418] nd pr en 933 xxx e99
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Experimental dg st ve ulcers L Rougeks P esse The results of gastroscopy K Guizeir Med Kl 1933 1 965 1000

Foregan bod es in the stomach M Antsinova S v t For snb dt. In the stomach. E Kujazev No. chr. Arch 1933 XXVII 567

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The return of gastric acidity after subtotal gastrectomy and double vagotomy P F SHAPIRO and B N BERG Arch Surg , 1934, 171111, 160

The surgical lavage of the stomach A KRECKE Muen-

chen med Wchnschr, 1933, 11, 1237

Two cases of postappendiceal intestinal obstruction DUCHET-SUCHAUN Bull et mém Soc nat de chir, 1933, lix, 1475

The relief of acute adhesive intestinal obstruction by suction applied to inlying duodenal tube O H WANGEN-STEEN Surg, Gynec. & Obst, 1934, lviii, 118

Intestinal evacuation by hydraulic suction G H PRATT

Am J Surg, 1034, xxiii, 148

Simple rupture of the bowel J Hothauser Orvoskepzes, 1933, xxiii, 165

Subcutaneous rupture of the bowel V NAGORJANSLAJA

Sovet Chir, 1933, in, 304
Diverticulitis E H Shannon Canadian M Ass J, 1934, \*\*\*, 59

Varices in the large and small bowel with fatal hemorrhage L Tenster Frankfurt Zischr f Path, 1933, xlv,

A rare complication of typhoid fever N DIETZ Sovet.

Chir, 1933, 111, 347

Perforated peritonitis with typhoid fever N Don-VRACEV and N Subin Sovet Chir, 1933, 111, 300

Perforated peritonitis with typhoid fever N DIETZ

Sovet Chir, 1933, 111, 317

A case of gas cysts of the intestine \( \Gamma \) C Pybus Brit J Surg , 1934, xx1, 539

Enterocystoma K KETTEL Hosp-Tid, 1933, pp 313, 388

Ileus W Anschuetz Muenchen med Wchnschr,

1933, 1, 875

Acute ileus M Procherov Sovet Chir, 1933, in, 298 Heus due to round worms M ROZANOV and S NECE-

PAJEV Sovet chir, 1933, 1v, 72

An experimental study of high ileus IV Resorption in high ileus P Seulberger, K Brandes, and W Roth Beitr z klin Chir, 1933, clviii, 1

Paralytic ileus and infarct of the myocardium R L DÓNOVAN Bol y trab Soc de cirug de Buenos Aires, 1933, XVII, 1238

Acetycholine in paralytic ileus A L ABEL Lancet, 1933, CCXXV, 1247

Recurrence following operation for intussusception case

reports K-W KRAMER 1932 Kiel, Dissertation

Ascending invagination of the small bowel following gastro enterostomy D Gorodinskij Nov chir Arch 1933, xxv11, 568

Diverticula of the duodenum W Boss Zentralbl f

Chir, 1933, p 1469

Diverticula of the duodenum and jejunum H C Ep-WARDS Lancet, 1934, ccxxv1, 169

Duodenal lavage O DE CARVALHO Rev méd Lat-

Am , 1933, xix, 160

Acute abdominal syndrome with the appearance of a duodenal ulcer during rheumatoid purpura CANONNE Bull et mem Soc d chirurgiens de Par, 1933, xxv, 659

Roentgenological visualization of the duodenal bulbus in duodenal ulcer A J R L Schoonhoven van Beurden Nederl Tijdschr v Genecsk , 1933, p 2680

Duodenal ulcer with pylorospasm and increase in blood

urea H KJERGAARD Acta med Scand, 1933, lxxx, 489 Cholelithiasis and ulcer of the duodenum in diseases of

the spinal cord G ZAGARI Rassegna internaz di clin e terap, 1933, xiv, 1116

Mucoclasis of the duodenum, a clinical and experimental contribution on the treatment of inoperable duodenal ulcer ACHILLES Zentralbl f Chir, 1933, p 1312

Roentgen evidence of healing in duodenal ulcer D M CLARK and M J GELMAN J Am M Ass, 1934, cu, 107 The surgical treatment of bleeding duodenal ulcer C J

HUNT J Missouri State M Ass., 1934, XXV, 31 Luclusion operation for duodenal ulcer M E Stein-

BERG Am J Surg, 1034, xxiii, 137
Radical operation for duodenal ulcer, with resection of the pancreas and the papilla I Philipowicz Zentralbl f Chir, 1933, p 2188

Extraperationealization of drainage because of difficulty in caring for the duodenal stump T Felsenreich

Zentralbl f Chir, 1933, p 1895

Retrograde jejunogastric intussusception J T Ches-TERMAN Brit J Surg, 1934, XXI, 541

The value of jejunostomy in intestinal surgery D GUTHRIE and W I SHEPARD Guthrie Clin Bull, Sayre, Pennsylvania, 1934, 111, 83

Three cases of acute ileocæcul intussusception in the adult J PRIM Rev de cirug de Barcelona, 1933, in,

Double ileal intussusception J E Ligstin Minne sota Med , 1934, TVII, 42

Regional ileitis, a clinical, not a pathological entity J HOMANS and G M HASS New England J Med, 1933, CC17, 1315

Prolapse of Meckel's diverticulum and prolapse of the small bowel in a newborn Tavernier and Pouzer Lyon chir, 1933, 133, 746

Ulcer in Meckel's diverticulum TAVERNIER and

Pouzet Lyon chir, 1933, xxx, 711

A case of ulcer in Meckel's diverticulum M J Del CARRIL and I D Bobillo Rev Asoc med argent, 1933, xlv11, 3456

Perforation of Meckel's diverticulum V BATASOV Vestnik Chir, 1932, lxxxii/lxxiv, 174

The physiology of the large intestine H W DAVIES

Med J Australia, 1934, 1, 15

Three cases of sinistrocolia due to peritoneal malformation, mesenterium communis J M Jorge, D Brachetto-BRIAN, and C A LLAMBIAS Bol 3 trab Soc de cirug de Buenos Aires, 1933, viii, 1241

The pathogenesis and clinicoroentgenological symptomatology of dolichocolon G MARTINOTTI Radiol med [420] 1933, XX, 1477

Pelvic megadolichocolon BARTHEIEMA Bull et mém Soc nat de chir, 1933, lix, 1465

Megacolon, with the report of a case F L CONKLIN and W T LINEBERRY U S Nav M Bull, 1934, xxxu,

Tæcal incontinence with megacolon T L BIPNBERG Minnesota Med , 1934, xvii, 38

Diet in diseases of the colon S W PATTERSON Practitioner, 1934, cxxxii, 82

The colon as a focus of infection F A CUMMINGS

Rhode Island M J, 1934, xvii, 1 Observations on chronic ulcerative colities J Tucker

Med Clin North Am , 1934, xvii, 1071

Relapses in chronic ulcerative colitis, causes and prevention B M BANKs and J A BARGEN Arch Int Med, 1934, lin, 131

Chronic recurrent migratory ulcerative colitis of the (Bargen) diplostreptococcus infection type H Joiner

J Med Ass Georgia, 1934, xxiii, 3 The diagnosite value of the double contrast enema, with

special reference to the diagnosis of early neoplastic lesions of the colon H Shan and J GERSHON-COHEN Surg, Gynec & Obst , 1934, lvm, 52

Non-malignant lesions of the colon, their roentgenological diagnosis R G TAYLOR California & West Med,

1934, xl, 11

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Cholecy stography H 4 OLIN Illinois M J, 1934,
The value of cholecystography by the method of oral administration in small doses L Sechenare and S administration in small Par, 1933, Al, 2068

KADENKA Presse mcd, Par, 1933, Al, 2068

KADENKA Presse mcd, Par, 1933, Al, 2068

KADENKA Presse mcd, Par, 1933, Al, 2068
           ADRNAA Presse mcd., Par., 1933, VII, 2008

The clinical value of an experimental study of the gall

The clinical value of an experimental study of the gall

Bladder D N SILVERMAN South M J, 1934, XXVII, 46

Diverticulum of the gall bladder A L PERTL J Iowa

Diverticulum of the gall bladder A L PERTL J Iowa

State M Soc. 1024, XXII. 17
                                 Differential diagnosis in gall-bladder disease
                        Nichols Med Clin North Am, 1934, XVII, 1059
                    State M Soc, 1934, XXII, 17
                                      A discussion of gall-bladder disease and its management.
                             A unscussion of gan-priduct disease and its management.

H J VANDEN BERG J Michigan State M Soc, 1934,
                                             Black bile and cholecystostomy V PAUCHET Arch de
                                     med, cirug y especial, 1933, til, 1401 W SHELDON Chronic cholecystitis in a boy aged ten and H Transport Toront To
                                         and H EDWARDS Lancet, 1934, ccxvi, 82

Parasitic cholecystitis H A MASCHERONI

Converted to the formation of the converted to the converted to
                                   TXXIII, 12
                                               rarasine choiceystus II A MASCADRON ACCOUNTS of the gall bladder B Schiassi J de chir Calculosis of the gall bladder B Schiassi J de chir
                                                                 Cholelithiasis, 2 summary J G Burto
                                                                     A case of cholclithiasis with obstruction of the common
                                                              duct A L Bryn U S Nav M Bull, 1934, XXII, 49
Primary carcinoma of the gall bladder V NATH Indian
                                                      1934, Ann, 8
                                                          M J, 1934, CXXI, 14
                                                                                A case of carcinoma of the gall bladder simulating sub-
                                                                         acute hepatic necrosis
                                                                   M Gaz, 1934, lxix, 7
                                                                                        Some principles in surgery of the gall bladder
                                                                               Some principles in surgery of the gail bladder S
FEDEROY Nov chir Arch, 1933, xxvii, 507
A study of end results following cholecystectomy
A study Northwest Med, 1934, xxvii, 16
LAMSON LAMSON dlatation of the ductus choledochus
Idiopathic dlatation of the Microscopic Chirolic Chir 1022, lxxviii/lxxix, 182
KISELEY Vestnik Chir, 1022, lxxviii/lxxix, 182
                                                                           Rep , Lond , 1934, hxxiv, 84
                                                                                         RISOPAULIC GHALALION OF THE GUCCUS CHOICHOCHUS A CYST of the common bile duct D G DUFF Brit J
                                                                                                          Benign tumors of the extrahepatic biliary passages G
                                                                                                    Benign tumors of the extranepatic uniary Passages ALIEV Azerbajdžan med Ztschr, 1032, 1/111, 73

A case of carcinoma of the papilla of Vater, with unusual Acase of carcinoma (Dr. 08), betil 1022, D. 448
                                                                                               Surg, 1934, XI, 536
                                                                                                       localization J Lendvar of construct the amounts of
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                                                                                                                          The pancreatic atropic action of extracts from the anapproximate to the himospheric of th
                                                                                                            C LAUNERS J de chir, 1933, xlii, 833
                                                                                                                 teror lobe of the hypophysis K J Anselmo, L Herold, and F Hoffmann Klin Wchnschr, 1933, II,
                                                                                                                      1245
The treatment of diabetes in children by means of a nor

Canadian M Ass J, 1933
                                                                                                                           mal type of diet H MEDOV1 Canadian M Ass J, 1933,
                                                                                                                                 TTIX, 605
                                                                                                                                     cases
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In the pelvis and causing obstruction of, and hemorrhage into, the colon H W FITZGLEALD Brit J Surg, 1034, xx1, 532 Acute pancreatitis, with a review of fifty-four operative

Acute pancreatitis, with a review of fifty-four operative

New England J Med, 1934,

New England J Med, 1934,

See P E Truesdale UISIUIDAILES AT CASSID'S TOO A LEV AA P J PARAMETER TOO A LEV AA Faramedian incision G DE TARNOWSKI and P J
SARMA Illinois M J, 1934, kv, 64
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S TO23
Laparotomy, clinical and experimental studies
CONAS Bull et mem Soc d chimirenes de Par The so called odematous pancreatitis The recognition and treatment of acute pancreatic nec Policlin, Rome, 1933, d., sez prat 1967
The recommittee and treatment of acut The recognition and treatment of acute pancreaus nectors N Guleke Muenchen med Wchnschr, 1933, 1, 835 Cyst of the pancreas with purulent content, marsupialication, recovery J CONY Bull et mem Soc nat de A case of displacement of the spleen A TERTERJAN xxv, 685 chir, 1933, lix, 1404 Azerbajdzan med Ztschr, 1932, 1/111, 49

Rupture of the spleen, operation at the end of forty-two Nupluie of the spicen, operation it the end of following hours Bertrand and Arnule Lyon chir, 1933, XX, 738

Homelytic scheme N Schwapz Sovet trac Caz Hemolytic icterus N Schnarz Sovet vrac Gaz, 355, 111/1V, 100 Spontaneous rupture of the malarial spleen A GADŽIEL Azerbajdzan med Ztschr, 1932, 1/m, 43
Azerbajdzan med Ztschr, 1932, 1/m, 43
Abscess of the malarial spleen A 1933, 111/iv, 100 Auscess of the manning speech A December 1997 and Adam med Ztschr, 1032,1/iii, 31
The etiological diagnosis of splenomegaly H C Velho The effect of splenectomy on hæmatopoiesis A Vich-The effect of spienectomy on hæmatopolesis A VICH-MANN, A GOLUSKO, V KAZANSKIJ, V LYČMANOV, and B MANN, A GOLUSKO, Strachan Med Inst, 1032, II, 28 CHASKIN Trudy Astrachan with delayed response to Essential thrombocytopænia with delayed rose Testential thrombocytopænia with delayed rose Testential thrombocytopænia with delayed rose spienectomy H LAGGE Chuy's Hoen Ren Lond rose spienectomy H LAGGE Folha med, 1933, XIV, 592, 605 Lesential thrombocytopænia with delayed response to splenectomy H Tagge Guy's Hosp Rep , Lond , 1934, Splenectomy for hypertrophic or biliary cirrhosis T Spienectomy for hypertrophic of binary circuos

BERZOV Trudy Astrachan Med Inst., 1932, II, 5

The technique of splenectomy R Maingor

Circle & Obst. 1934, Icin. 62 lxxxiv, 72 Gynec & Obst , 1934, Ivin, 62 Prominent symptoms in common abdominal lesions W GIBBON South M & S, 1034, 7CV1, 9

W GIBBO'S SOURCE BY GOS OF CONDITIONS GIVING TISE to Some pitfalls in the diagnosis of conditions giving rise to chronic abdominal discomfort J S McCachern Ca-Arterial contusion DE ROUGEMONT Lyon chir, 1933, nadian M \ss J, 1934, XX, 8 Gasseous distention of the abdomen Muclure Bull A case of gaseous distention of the abdomen following et min Soc nat de chir, 1933, lix, 1502 abdominal contusion NINI Bull et mem Soc nat de XXX, 706 Laparoscopy with a cystoscope A contribution on the simplification of the technique and on endoscopic division of the technique and on endoscopic division of albertic bands within the personnel casts. chir, 1933, lix, 1452 of adhesive bands within the peritoneal cavity Hæmatological studies of diseases of the right side of the Rome, 1933, VI, sez VERS Med Klin, 1933, 11, 1042 abdomen

Right paraduodenal herma A C HALLINEIL Brit J Actinomycosis of the subphrenic space Actinomycosis of the Subphrenic space Acunomycosis of the supphrenic space 1 A GRANLS and A Ochsner Am J Surg, 1934, xxiii, 54

Primary heterotopic hydatid cyst in a child of eighteen and the primary heterotopic hydatid cyst in a child of Ilnii de proprihe Ar Par Carpo An Fac de med Ilnii de chir 760 Surg, 1934, XXI, 398

months M R DEL CAMPO An Fac de med, Unit de Montevideo, 1933, vini, 478
A large calcined hydatid cyst of the omentum impacted

A contribution on certain rare tumors, with special consideration of retroperitoneal sarcomata W Steep and A sideration of recoperturical Saconiau , 3,1,1362 BOEGER Muenchen med Wchnschr , 1933, 11, 1362

Abdominal carcinomatosis associated with vasomotor Abdominal carcinomatosis associated with vasomotor disturbances of Cassin's Proc Roy Soc Med, Lond,

iaparotomy, cuincai and experimental studies 5 154-CONAS Bull et mem Soc d chirurgiens de Par, 1933,

#### GYNECOLOGY

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The effect of radium irradiation on ovarian activity H ROTH Comptes rendus de la Soc franç de gynéc, 1033,

Autotransplantation of ovaries into the anterior chamber of the eye of the rabbit K PODLESCHKA and H DWORZAK

Zentralbl f Gynack, 1033, p 2114 Ovarian hæmorrhage F RAPPOPORT Vestnik Chir,

1032, lxxviii/lxxix, 173

Intestinal obstruction and an overian cyst V RICHE and L Mourgue-Molines Bull Soc d'obst et de gynéc de Par , 1933, xx11, 769

A clinical case of ovarian abscess associated with parovaman cyst. E Porti Arch di ostet e ginec, 1933, d.

Theca-cell tumors of the ovary P J MELNICK and A E KANTER Am J Obst & Gynec, 1934, XXVII, 41 [427]

Solid teratoma of the ovary R W BINKLEY Calı-

forma & West Med , 1934, xl, 42

The status of granulosa carcinomata of the ovary from the clinical, histological, and radiological standpoints H O KLEINE Strahlentherapie, 1933, vlvii, 326 [427]

The treatment of tumors of the ovary H C TAYLOR,

JR New York State J M, 1934, VXIV, 13

A review of operated ovarian tumors from the Second University Gynecological Clinic of Munich J TREU-TINGER 1932 Munich, Dissertation

#### External Genitalia

Pathogenicity of the monilia (Castellani), vaginitis and oral thrush H C HESSELTINE, I C BORTS, and E D PLASS Am J Obst & Gynec, 1934, TVVII, 112

Trachoma vaginitis A simplified treatment and an explanation for the frequencies of recurrences W K Ruble

Northwest Med , 1934, xxiii, 14

Myoma in the anterior wall of the vagina P PETRIDIS Bull Soc d'obst et de gynéc de Par , 1933, xxii, 740 The treatment of cancer of the vagina E NOVOTELNOVA

and O Arnstaum Vestnik Rentgenol, 1932, v, 319

#### Miscellaneous

Modern tendencies in gynecology and obstetrics J P ORFILA An Fac de med, Univ de Montevideo, 1933,

Constitutional types of somatic femininity and their endocrine formula N PENDE Presse med, Par, 1933,

XII, 2094

The use of the sero interferometric test of Hirsch in gynecology, some experimental results. A Desaux and C O Guillanus Company Comp O GUILLAUMIN Comptes rendus de la Soc franc de gynéc, 1933, 111, 191

The relationship between the sympathetic-adrenal systems and the reproductive changes in the female genitalia M WALTHARD Muenchen med Wchnschr, 1933, 1, 638

Studies on the similarity between urinary substances assumed to be anterior hypophyseal lobe hormones and substances taken from the hypophysis A Mahnert

Zentralbl f Gynaek, 1933, p 1572

The influence of opaque and caustic substances on the organs and tissues of the lesser pelvis. An experimental study A F Grigorieva, A N Morosoff, and M G Serduloff Gynec et obst, 1933, xxviii, 608 [428]

On some effects produced by applying estrin to the skin of mice H Burrows and N M Kennaway Am J Cancer, 1934, xx, 48

The hormonal treatment of functional disturbances in gynecology F Siegert Jhurse aerztl Fortbild, 1933, I G, VIXX

The effect of ovarian hormones on coagulation LUNDBERG Svenska Lakartidningen, 1933, p. 113

Ovarian therapy The relationship of the female sex hormone to hamophilia J Brew and J S Leopold Am M Ass, 1934, cu, 200

Clinical evaluation of combined prolan and anterior C MAZER and B R KATZ Endopituitary therapy crinology, 1933, xvii, 709

The preparation of folliculin and the pharmacological problem associated therewith K GAD-ANDERSEN and E JARLV Ugesk f Læger, 1933, p 68

The value of diet therapy in gynecology J NOVAK

Fortschr d Therap, 1933, 1x, 524

The physiology of menstruation S GENELL Nord med Tidskr, 1933, p 677

Ovulation and menstruation R ARAYA Semana med, 1933, 1, 1549, 1714

The length of the human menstrual cycle C I ILUH-

MANN Am J Obst & Gynec, 1934, XXVII, 73
A modern theory of menstruation C F FLUHMANN

Northwest Med , 1934, xxviii, 10

The treatment of functional menstrual irregularities of young women D G DRIPS J Iowa State M Soc, 1934, zziv, i

Artificial stimulants for menstruation by the administration of ovarian hormones Loeser Ztschr f Geburtsh u Gynaek, 1933, cv, 501

The treatment of amenorrhoea with ovarian hormone

KAUFMANN Klin Wchnschr, 1933, 11, 1557

Inveterate amenorrhoea treated and cured by diathermy coagulation J E MARCEL and T LAENNEC Comptes rendus de la Soc franç de gyncc, 1933, 111, 199

Sympathectomy for dysmenorrhea Proc Roy Soc Med , Lond , 1934, xxv11, 258

The significance of menstrual disturbances in pulmonary tuberculosis H C HESSELTINE and W M SPEAR Am J Obst & Gynec , 1934, xxvii, 32

Menstrual fever in tuberculous women J Lecloux and C Carez Rev belged sc méd, 1933, v, 609

Agranulocytic angina associated with the menstrual cycle H JACKSON, JR, D MERRILL, and M DUANE New England J Med, 1934, ccx, 175

Observations on the possible relation between agranulocytosis and menstruation, with further studies on a case of cyclic neutropænia W P THOMPSON New England J Med, 1934, ccx, 176

Pelvic inflammation in women C H LUPTON Virginia M Month , 1934, lx, 617

Newer concept of rheumatism and gynecology The

general nervous rheumatism and gynecological diseases R MILNER Zentralbl f Gynaek, 1933, p 1687

Leucorrhœa and its treatment L NUERNBERGER Muenchen med Wchnschr, 1933, 1, 715

The serum diagnosis of gonorrhœa in the female S Sommer Ztschr f Geburtsh u Gynaek, 1933, cvi, 185

The gonococcus complement reaction in gynecological inflammatory diseases S VIDAKOVIC Lijec vijesnik 1933, lv, 408 [429]

Observations on parasitism in gynecology Léo Rev franç de gynec et d'obst, 1933, xxviii, 834 [429] A rare localization for adenomyosis H Kirchnep

Zentralbl f Chir, 1933, p 2181

Neoplasms in congenital deformities of the internal female genitalia P Pinto Arch di ostet. e ginec, 1933, xl,

Tumors of the urethra C H. PHILLIPS and M D Douglass Am J Obst. & Gynec., 1934, xxvii, 99 Endometrioma, report of a case L L LEONARD

Med Soc New Jersey, 1934, xxxi, 41

E l t fradiat nth ps m lon tolsease f th f mal generati tract. W I H str 4m J Obst & Cymec 933 xv1 7%0 Conservati operat gynec bgy L P tot Bull et mem Soe d eh rurgi nede la 1933 656 The teatme t I es oc recal fst la the bse e f

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The early signs of pre eclamptic toxmia, with special reference to the order of their appearance and their interrelation F J Browne J Obst & Gynæc Brit Emp [433] 1933, vl, 1160

The incidence, treatment, and mortality of eclampsia I BINDLE Am J Obst & Gynec, 1934, XVII, 59

The etiology and treatment of an emia in pregnancy

M B STRAUSS J Am M Ass, 1934, Cii, 281 Sickle cell anæmia in pregnancy A F Lash Am J

Obst & Gynec, 1934, xxv11, 79 Epistaxis in pregnancy G ABRUZZESE Arch di ostet

e ginec, 1933, xl, 742

Two cases of congenital heart disease in which the diagnosis was made before birth A L DIPPEL Am J Obst & Gynec, 1934, xxvii, 120

The cutaneous reaction of pregnant women to substances causing wheals and bullæ, an experimental study

Merlino Arch d ostet e ginec, 1933, vl, 767

The effect of monolateral suprarenal ectomy upon the skin during pregnancy  $\Gamma$  P Done DDU Riv ital di ginec, 1933, 11, 530

Pregnancy and acute appendicitis C FATIOL Ztschr

f Geburtsh u Gynaek, 1933, cv, 449 Nephritis and pregnancy K Kuder and H J Stander

New York State J M, 1934, xxxiv, 5
Banti's disease and pregnancy Γ TALLAFERRO Bol Soc de obst y ginec de Buenos Aires, 1933, vii, 764

A critical study of tuberculosis and pregnancy SCHULTZE-RHONHOF and HANSEN Med Klin, 1933, 1, 765

The diagnosis and treatment of syphilis complicating pregnancy N R INGRAHAM, JR, and J E KAHLER Am

J Obst & Gynec, 1934, xxvii, 134 Myomectomy in the third month of pregnancy, delivery normal at term R MAHON Bull Soc d'obst et de gynéc

de Par , 1933, XXII, 760 Indications for artificial abortion H MARTIUS

Deutsche med Wchnschr, 1933, 11, 1115, 1160

Severe hæmorrhage following postabortum curettage, retention forceps in the cervix, recovery M Poux Compt rend Soc franç de gynec, 1933, 111, 205

The results of abortion induced by intra-abdominal operations on the uterus, associated with sterilization M STUTZ Arch f Gynaek, 1933, clin, 512

#### Labor and Its Complications

The prenatal onset of the obliteration of the umbilical arteries as the cause of labor J MELKA Anat Anz, 1933, lxxv1, 194

Some observations concerning the use of medical agents in the induction of labor E Brémond Bull Soc d'obst et de gynec de Par, 1933, xxii, 780

I tgot and its rectal administration H KLFINSCHMIDT

1933 Erlangen, Dissertation

A complication arising during a premature induced labor Bittle and Siull Bull Soc d'obst et de gynec de Par , 1933, xx11, 762

Nembutal and scopolamine analgesia in labor, with a report of 160 cases L AVERETT Am J Obst & Gynec,

1934, 33411, 109

The barbiturates and other hypnotics in labor \( \Gamma \) C IRVING, S BERMAN, and H B NELSON Surg, Gynec & Obst., 1934, Iviii, 1

Dystocia of maternal and fetal origin Sorbi Arch di

ostet e ginec , 1933, A, 739

The contraction ring complicating labor C R HANNAH and W L MASSEN Texas State J M, 1934, XXIX, 559

Contracted pelvis, frontal presentation, treatment by Zárate symphyseotomy M V Palsía Semana med, 1933, vl, 1788

Persistent occiput-posterior presentations L Speidll South M J, 1934, xxvii, 28

Observations on uterine rupture during labor K

BINGEL 1933 Cologne, Dissertation

Rupture of the uterus in a case of neglected shoulder presentation Lapeyrie, Battle, and Sauvy Bull Soc d'obst et de gynéc de Par, 1933, xxii, 776

The use of an abdominal belt in the second stage of labor, our modification of the Werboff belt L LEON and R A TERRARI Bol Soc de obst y ginec de Buenos Aires, 1933, x11, 748

A review of cæsarean sections A F MAXWELL West

J Surg, Obst & Gynec, 1934, vln, 14 Cesarean section I W POTTER Texas State J M, 1934, 3318, 570

A discussion of abdominal cæsarean section

PARKER J South Carolina M Ass, 1934, XXX, 11

Cæsarean section in the treatment of placenta prævia D A Rojas Semana med , 1933, xl, 2072

A case of high cæsarean section for placenta prævia Delmas and Battle Bull Soc d'obst et de gynec de Par, 1933, xx11, 783

Discharge of the uterine cicatrix through the vagina during a low cæsarean section Anderodias and Péri Bull

Soc d'obst et de gynéc de Par , 1933, xxii, 758

Late cæsarean section, a contribution on operative technique R Merger Gynéc et obst , 1933, vvviii, 575

Spinal anæsthesia for cæsarean section in a patient with pyelonephritis T A CHAMORRO Semana med, 1933, xl, 1860

Pathological results of cresarean section D LINDSAY

Lancet, 1934, ccxxv1, 19

Manual removal of the placenta W SSOLOWJEW Monatsschr f Geburtsh u Gynaek, 1933, xcv, 34 [433] Adherent placenta, a report of a case resulting in maternal death C V GREEN, JR U S Nav M Bull, 1934, XXXII, 43

Vaginal hysterectomy during labor W ROSENSTEIN Monatsschr f Geburtsh u Gynaek, 1933, xciv, 282

#### Puerperium and Its Complications

The ecchymotic cervicofacial mask of parturient women CATHALA and BERNARD-GRIFFITHS Bull Soc d'obst et de gynéc de Par, 1933, xx11, 735

The treatment of recent puerperal inversion of the uterus, with a report of five cases D N BARROWS Am J Obst

& Gynec , 1934, xxv11, 105

A case of acute puerperal inversion of the uterus reduced manually under spinal anæsthesia J Susimi Presse med, Par, 1933, xl1, 2076

The treatment of hæmorrhage in the puerperium R

Vorster Jlurse aerzti Fortbild , 1933, xxiv, 57 Anaerobic bacteria in the blood in puerperal infections

Z Bohdanowicz and T Jasisski Ginek polska, 1933

Severe puerperal infection, peritonitis, laparotomy, Vincent's serum, recovery PERI, BALARD, and MANGÉ Bull Soc d'obst et de gynec de Par, 1933, xxii, 759

My method of treatment of puerperal sepsis with local intraparenchymatous vaccination F Spirito Zentralbl f Gynaek, 1933, p. 1933

Postpuerperal polyneuritis V Iswarian and P Ku TUMBIAH Indian M Gaz, 1934, lxix, 13

# Newborn

Blood chemistry studies of normal newborn infants 1 HOLMAN and A MATHIEU Am J Obst & Gynec, 1934, xxvn, 95

The 1 flu of po tu upon th m ment of fluid i th traches of the newbo n D P Murphy Am I Ob t. & Gynec. gtt xx ii 118 F tal b rth junes with special ref rence to tra-cranial lesos P B Bland W st Virginia M J 1934

Operati e interve ton upon newb rn fants f r oc cop tal meni g cele P DEL TORTO Ann it I di chir 1933 XII 1017 Obstetrical fractu I the sp obst t cal parapl gr

R Guerr R do th p 1933 1 653 Icteru gra is neo at nim a d lli d dee ses R Licirwo D nd I C Havastey P oc R v Soc Med Lo d 014 XX11 255

#### Miscellanenue

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Mo tal ty r te f obst t al d p tment in g ral hosp tals A J Skeet. Ohio Stat M J 1034 rst 1

#### GENITO-URINARY SURGERY

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#### Bladder, Urethra, and Penis

Absorption of urea from the bladder F A FENDER.

Arch Surg , 1934, xxviii, 180

Urography as a guide to surgical indications of diverticula of the urinary bladder R H HERBST J Am M Ass, 1934, cn, 188

Carcinoma of the bladder with intraperitoneal perfora-

tion D Evans Lancet, 1934, ccxxvi, 185

Irradiation and electrosurgery in the management of carcinoma of the urinary bladder J T STEVENS Radiology, 1934, xx11, 99

Complete closure of the unnary bladder in cystotomy

cases M WHITBY Lancet, 1934, ccvvvi, 81

A contribution to the study of urethrography N Hor-TOLOMEI and T KATZ GALATZI J d'urol med et chir

Destruction of the urethra and loss of vesical control associated with vesicovaginal fistula, technique for its correction G G WARD Surg, Gynec & Obst, 1934, lviu,

Diverticulum of the anterior portion of the male urethra A von Adler-Racz Ztschr f urol Chir, 1933, xxxvii,

Circumcision and syphilis V E LLOYD and N L LLOYD Brit M J, 1934, 1, 144

#### Genital Organs

Roentgenography and radiodiagnosis of the male genital tract-vaso-epididymo-vesiculography An experimental and clinical study W DOBRZANIECKI J de chir, 1933, vlu,

Alternating hermaphroditism with gynecomastia, microscopic examination of the right gonad C I URECHIA and

L Teposu Presse med, Par, 1933, vli, 2062

A ten year cure of splenic metastases of a seminoma following roentgen therapy in a pseudohermaphrodite

A BÉCLERE Vestnik Rentgenol, 1932, x, 15 An inquiry into the results of surgical treatment of genital tuberculosis in the male RO LFC and K Bowes Brit

J Surg, 1934, xxi, 456
The course of the first case of human balantidiosis observed in Uruguay R V TALICE, C A PELUFFO, and C NIETO Arch urol de la clin de Necker, 1933, 111, 676

Genito ano rectal lymphogranulomatosis of the male

W E Courts Ann Surg, 1934, YCIX, 188

Diverticular formations in the prostate and disease of the neck of the bladder The etiological relationship between these diverticular formations and chronic hypertrophic prostatitis, stenosis of the neck of the bladder, diverticula of the bladder, and ureteral and renal dilatations An attempt at preventive surgery of these lesions HEITZ-BOYER J d'urol med et chir, 1933, xxvvi, 366 [438]

A few cases of enlarged prostate P N SARLAR Cal-

cutta M J, 1933, xxviii, 179
Enlargement of the anterior portion of the prostate gland B S Cran Brit J Surg, 1934, XXI, 453

Prostatic obstruction C W Collings J Am M Ass , 1934, CII, 123

Transurethral prostatic resection G J THOMPSON

California & West Med, 1934 xl, 1

Transurethral electroresection of bladder-neck obstruction H L KRETSCHMER J Michigan State M Soc, 1934, XXXIII, I Postoperative complications in transurethral surgery

JR CAULL and J T PATTON J Am M Ass, 1934, cu, 117

The management of non gonorrhœal prostatitis Pelouze South M J, 1934, XXVII, 43

Local infiltration an esthesia of the prostate preliminary to resection W N Wishard, JR, H G Hamer, and H O MERTZ J Am M Ass, 1934, cu, 32

The surgical treatment of varicocele J Londres Ann

Surg, 1934, xcix, 185

A variant in the operative treatment of varicocele A Fišanovič Sovet chir, 1933, IV, 94 Non-specific metastatic epididymitis W

INGHAM J Urol, 1934, XXXI, 87
Gonorrhocal epididymitis R P Parsons U S Nav

M Bull, 1934, xxxii, 1

Local circulatory disturbances of the testicle H HELL-NER Beitr z Llin Chir, 1933, clviii, 225

Advantages and applicability of the Torek orchiopexy for undescended testis A E W Ada Am J Surg, 1934, xxIII, 133

Teratoma testis, fifteen cases studied microscopically and biologically C W STELLE Arch Surg, 1934, XVIII, I Pathological physiology of teratoma testis R S FERGU-

SON J Am M Ass , 1933, C1, 1933 Malignancy of the undescended testicle R H CRAW-

FORD South M & S, 1934, xcv1, 26 Embryonic carcinoma of the testicle C M Highes

U S Nav M Bull, 1934, exxii, 55

Sarcoma of the testes R ALULOVA Vestnik Chir, 1932, lxxx11/lxxx1v, 120

The results of roentgen therapy for malignant tumors of the testes B KOHLMANN Vestnik Rentgenol, 1932, X,

#### Miscellaneous

Physiology and pathological physiology of the dynamics of the urinary passageways M MUSCHAT Am J Surg, 1934, XXIII, 129 Abdominal factors in urology I von Szabó Ztschr f

urol Chir, 1933, xxxvii, 429

Modern concepts of genito-urinary tuberculosis G J THOMAS and T J KINSELLA Am J Surg, 1934, vviii, 111 Gonorrhœal endocarditis, case report W W Rucks, JR J Oklahoma State M Ass, 1934, xxvii, 3

Diet in the treatment of infections of the urinary tract.

A L CLARK Practitioner, 1934, CXXXII, 34

The relation of Vitamin A and Vitamin D to urinary calculus formation A R BLISS, JR, G R LIVERMORE, and E O PRATHER, JR J Urol, 1933, XXX, 639
Nephrectomy table N F OCKERBLAD J Urol, 1934,

XXXI, 117

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

#### Conditions of the Bones, Joints, Muscles, Tendons, Etc

The histogenesis of accessory skeletal elements, the os tibiale externum M R FRANCILLON Ztschr f orthop Chir, 1933, lix, 513

Osteoporosis following trauma J M MOORE West Virginia M J , 1934, xxx, 22

Osteogenesis imperfecta. E Galachov Sovet Chir, 1933, 10, 226

Fragilitas ossium in five generations H JOACHIM and M G Wasch Ann. Int. Med , 1934, vu, 853

A ew case of dys st cle docrania! T I roba j Hygiea Stockh lm 933 cv 64 A se f | e ile osteodyst ophy with m it ple loc liza t n G Ma clo E Chr d rg idim im nto 933 365

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My-isthenia gravis, the effect of treatment with glycine and ephedrine third report W M BOOTHIN Arch Int Med. 1034 lm, 30

Lendon dislocation G Pittoip 1933 Luprig Dis

sertation.

Lerse of ranthoma of the tendon sheath S. Timori in a

Sovet chir 1933 is 100

1 118101 Cinadian M Tuberculous rheumatism 1ex ] 1034, TYT 30 P Win Rev belge d sc Tuberculous rheum itism

med , 103, 1, 659

titioner 1934 exxvii, 65 Mechanical instability of the shoulder joint in relation to the prevention and treatment of painful shoulders I T Brown and J G Kinss J Bone & Joint Sur,

14131 1634 701, 85 Periscapular tenobursitis and pains in the upper ex

tremits Does Bull et mem Soc med d hop de Par, 19,3, the 1565

Bilateral humerus varus and congenital desplasia of both hips, rhizon the dischondroplasia. H I Roem t

Rev dorthop, 1033 tl 645

Removal of the humerus for extensive ostcomychitis in a man of sixty three, functional result at the end of four verb R Monop Bull et mem Soc nat de chir, 1913, hr 1438

Cv-t of the humerus D Typpia Rassegna internaz

diclin e terap, 1033, xiv, 1054

O teochondromatosis of the elbor. Her icii, Mf-NEGALN and pr Namas Bull et mem Soc nat de chir, 1933, lix, 1510

Tuberculosis of the cloom 1 Koros Ortop 1 Irismat,

1932, 11 25

The etiology of Dupuytren's contracture H Box mar

1933 I reiburg 1 Br., Dissertation

Sarcoma of the second metacarpal bone, case report and review \ I Olson Minnesota Med , 1034 xvii, 24

Primary ostcomychtis of a phalant of Rollinor

I von chir, 1933, xxx, 721

The cystine content of the finger nuls in arthritis M \ SULTIVAN and W C HISS J Bone & Joint Surg , 1034, TV1, 155

Spasmodic torticollis C W RAND Am J Surg , 1934,

XxIII, 184

Baclache W B Owry South M J, 1034, xxvn, 40 Low back pain, with special reference to the articular facets, with the presentation of an operative procedure R. K. GHORMLI 1 J. Am. M. Ass., 1033, ci, 1773

Anatomical changes in the lumbosacral region and sacral pains. H. Reinberg and S. Zatkin. Sovet Chir,

1933, 111, 289

Lumbar pain with pathological changes in the lumbo sacral vertebræ D Nov vzikov and I Tikipov Vojenno med Ztschr, 1932, 111, 163

Geometrical analysis of scoliotic spines C J Surpo and M M POMPRINZ J Bone & Joint Surg., 1034, 711, 65 Prespondy Jolisthesis O L MILIEP South M & S., 1934, XCV1, 32

Spondylosis deformans and accident C Myt Ztechr

f orthop Chir, 1933, lx, 16

Herma of the nucleus pulposus A C Moonin Brit

J Radiol , 1934, vii, 46

Tive cases of familial laminitis M I LORIS Chir d organi di movimento, 1933, xviii, 381

form fruste of vertebral osteomyelitis J Decourt Bull et mem Soc med d hop de Par, 1033, xlix, 1474

Recurring ostcomyclitis of the transverse processes of the fourth lumbar vertebra. I LOBEN Muenchen med Wehnschr, 1933, 11, 1622

Braillus proteus osteomychtis of the spine S Serie J Rone & Joint Surg 1951 Evi, tho

Pott s discree of the lumb it spine, of unusual type, with psons and glutcal abscesses. H. I. C. Wood. Proc. Roy. Soc Med , I and 1034, xxvn, 222

I chinococcus of the vertebral column. I Jinns and I

NETTA Spitalul , 1033, lm, 207

Tuberculosis of the spine, a study of 100 cases / B 10111- J. Hone & Joint Sury, 1931, 711, 200

Heren cases of primary peoitis in children and adoles cents P Incitious and J Minne Rev dorthop, 1933 77 577

The rountgen diagnosis of abscess of the lumb ir spine in tuberculous spondylitis V Grazianski Sovet Chir

1033, 1\ 100

Benum print cell tumor of the third cervical vertebra, a case report I A Muchanian and I A Lineir Brit J Surg , 1031 771 513

Grant cell tumor of the vertebral column M. Meser

Rev dorthop, 1933, vl 659

The etiology of osteochondritis deforming juvenilis

cove G Macapa Ornoslepics, 1933, xxiii 384 Ostconvelitis of the ilium C F Badella Arch Surg ,

1034 441111, 83

leute osteomychtis of the ilium G Macyaky Or

xoskeprés, 1933, xxIII, 375

Symptomatology and pathogenesis of acute osteomy elitiof the ilium R Pazzactt Chir d organi di movimento, 1035, XVIII, 531 Shero ship "A F P Goener Northwest Med

Scintica and the sacro iline joint. A. H. Pretriere and 1 II VINKI J Bone & Joint Surg , 1934, 711, 126 [413] Scirtic prin, its clinical significance. A. H. I REIBI PC Ohio State M. J., 1034 XXX, 21
Riopectincal bursitis. H. W. Timmermany. Med. Klin.

1933, 11 1172

Recurrent sarcoma of the thigh H Powards Proc Koy Soc Med , Lond , 1934, xxvii 224

Histological study of the capsule of the linea joint in various ages and in chronic joint disease. J. Keatz. 1932. Frankfurt a M., Dissertation

I new method of osteotomy for the correction of long Bone & Joint Sur, 1934, vvi, 155

The symptomatology of injuries to the menisci of the knee \ Barkor Sovet Chir, 1033, 11, 200

I new sign of injury to the median meniscus of the knee

M TCHARIPT Rev d'orthop, 1033, vl, 603

Triumatic lesions of the menisci of the knee and J A Scrosso Rev de ortop 3 traumatol, 1933, 111, 247

I lexion contracture of the lines with signs of meningeal inflammation R ALMANSI Policlin, Rome, 1933, vl. sez prat 2003

Chronic synovitis of the knee with persistent or recur ring effusion and of undetermined etiology. A. B. Gitt and T E ORR J Bone & Joint Surg , 1934, xvi, 150

Osteochondritis of the patella, including a case with multiple epiphyserl involvement M GIILMAN J Bone & Joint Surg , 1934, xv1, 95

Inberculosis of the linee joint, a comparison of its mor bid anatomy with its roentgenological manifestations R K GHORMILI, B R KIRKIIN, and L A BRAV Am J Roentgenol, 1933, xxx, 747

Tibial dislocation in tuberculosis of the linee, patho genesis and treatment S Marconi Chir d organi di movimento, 1933, vviii, 401

The method of extra articular arthrodesis of the knee

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The effect of a local calcium depot on osteogenesis and healing of fractures J \ Kr\ J Bone & Joint Surg, 10,4, 71, 176

The effect of the oral administration of macerated fresh bone in the repair of fractures M DANILII Policlin,

Rome, 1933, vl, sez chir 722

Con's horn in internal fixation of fractures E B FOWLER Illinois M J, 1934, lv, 56

Observations on fracture healing in rats M K Lind-S11 J Bone & Joint Surg , 1934, 711, 162

Fracture equipment, with notes on its use H R Rishworth Indian M Gaz, 1934, lviv, 29 Local anysthesia for bone fractures B Petrov Nov

chir Arch , 1933, xxviii, 35 An attachment for Hawles fracture table designed to

facilitate application of body cases C K Petter

Bone & Joint Surg , 1034 XVI, 211 Umlateral dislocation of the atlas anteriorly, without fricture of the odontoid process R Sommer Chirurg, 1933, 1, 480

Operation for habitual dislocation of the shoulder L FORSTER. Schweiz med Wehnschr, 1933, 11, 941

A case of recurrent posterior dislocation of the scapulo humeral joint. A B Arroto Rev de ortop y traumatol [447] 1033, 111, 188

Cirug ortop y triumatol, 1933, 1, 231

Impacted fracture of the neck of the scapula C 1 HITCHINSON J Royal Army M Corps, Lond, 1934,

The treatment of tractures of the upper end of the humerus An experimental and clinical study HOWARD and L LLOFSSER J Bone & Joint Surg, 1931,

Fractures of the lower end of the humerus ELISSON and C W McLaughten, JR Am J Surg,

1034, XXIII, 79

Fracture of the trochlear process of the humerus with intra articular displacement of the fragment, paralysis of the ulnar nerve L ZENO Bol y trab Soc de cirug de Buenos Aires, 1933, xviii, 1259

Fracture of the trochlear process of the humerus with intra articular position of the fragment and paralysis of the ulnar nerve J Valls and C L Offoleschi Rev de ortop 3 traumatol, 1933, 111, 209

Wire extension for upper arm fractures L BAUMANN

Zentralbl f Chir, 1933, p 1466

Supracondylar fracture of the elbow in children, treatment and results R INOCRIETTO and A LLAURIAS Semana mcd, 1933, xl, 1837

The management of fractures of the bones of the fore arm O L Miller South M & S, 1934, xcvi, 4

End results of fractures of both bones of the forearm H K Sowles J Bone & Joint Surg, 1934, xvi, 193

Fractures at the lower end of the radius, the rolling pin method for their reduction W A CLARK California & West Med , 1934, vl, 35

Avulsion of the interesseous ligament from the radius

W DANN Schweiz med Wchinschr, 1933, 11, 948

Fracture of the ulna, dislocation at the head of the radius D Volinskij Ortop i Travmat, 1932, vi,

The treatment of comminuted Colles' fracture in clderly patients C L HAGGART New England J Med, 1933, ccix, 1140 [447]

Subtotal retrolunar luxation of the carpus Bilateral lesions P S Toleno Cirug ortop y traumatol, 1933 14481 1, 217

Fracture of the os navicular of the wrist A SORKIN Vojenno med Ztschr, 1932, 111, 143

The treatment of fractures of the carpal bones. I ate results W KLICHFI Muenchen med Wchnschr, 1033, [448] 11, 1350

I ragmentation chips from the carpal bones M Ernst and W ROEMMELT Deutsche Ztschr f Chir, 1933, ccxlı, 438

Roentgenological diagnosis of fractures of the scaphoid bone of the hand F SCHNTK Zentrilbl f Chir, 1933, [449 p 1954

I ractures of the fingers and their treatment B Div No-GORSKI and V GLUŠČENKO Sovet. Chir, 1933, IV, 214

Fraumatic backache P N JEPSON J Am M Ass [449] 1933, c1, 1778 The late sequely of vertebral trauma and their treat-

ment M B ANSART and J D'H Got Rev de cirug de Barcelona, 1933, 111, 1

A simple method of applying a body cast in fractures of the spine J PENN J Bone & Joint Surg, 1934, TVI, 205

The use of a modified hospital bed for treating fractures of the spine R F PATTERSON J Bone & Joint Surg, 1934, XVI, 207

The modern treatment of uncomplicated compression fracture of the dorsal and lumbar vertebre T I FLSEN-REICH Arch f klin Chir, 1933, clxxvi, 123

The treatment of fractures and fracture dislocations of the spine R W JONIS J Bone & Joint Surg, 1934, **TV1, 30** 

Wire extension of the sacrum, indications and technique II Nilssey Monstsschr f Unfallheilk, 1933, 7l, 292 Congenital dislocation of the hip J 1 Fri ini rg

Am M Ass , 1934, cn, 89 Spontaneous dislocation of the hip in childhood P N

RAY Brit. J Surg , 1934, xxi, 523
The prognosis of closed reduction of congenital disloca tion of the hip H Hilginging Lische f orthop Chir, 1933, lx, 44

Traumatic injuries of the hip Occurrence treatment, and end results on the basis of institutional material during a period of ten years. K. Nil DERECKLR. Arch f. orthop Chir, 1933, xxxiii, 567

Intracapsular hip fracture I J Cotton J Bone & Joint Surg , 1034, 111, 105

Intracapsular fractures of the hip, a new device for lateral osteosynthesis M O HINRY J Bone & Joint Surg , 1934, xv1, 169

I ricture of the lower extremities P KONDRATIJLY

Vojenno med Ztschr, 1932, 111, 137

Lnd to end reduction in frictures of the lower extremity R Anderson West J Surg, Obst & Gynec, 1033, th, 671

The mechanics and reduction of displaced upper femoral epiphysis J D Adams New England J Med, 1934 ccx, 178

The treatment of central dislocation of the head of the femur with traction of the major trochanter O WINTER-STEIN Zentralbl f Chr., 1033, p. 1710

A study of the fracture of Monteggia 1 Lambotte

Rev de ortop y traumatol, 1933, in, 139

The treatment of fractures of the neck of the femur M Krabbel and I Hudepohl Arch f orthop Chir, 1933, XXXIII, 470

A new treatment of intracapsular fractures of the neck of the femur and Legg-Calve-Perthes disease Technique E J Borsan J Bone & Joint Surg , 1934, xvi, 75

Recent intracapsular fractures of the neck of the femur, a critical consideration of their treatment and a description of a new technique T KING Med J Australia. 1934, 1, 5

Wiring of pertrochanteric fractures of the femur T M CADENAT J de chir, 1934, vlin, 1

A device for tra porting patients thir duced fract in f th femu C I Hollings ont I I am M A a 1034 CI 1 6 Thee ases I fract re of the pper tr m tv of th

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Thrombo angutts obliterans of patients with diabetes B T Horton and  $\Gamma$  N Allan Ann Int Med., 1934, 111, 799

Sympathetic ganglionectomy for gangrene due to thrombo-angutis obliterans H H STEWART Brit M J,

1934, 1, 100

Endarteritis obliterans, with unusual eye involvement A O Pringst J Med, Cincinnati, 1934, viv., 566

The errors and dangers in the surgery of the blood vessels I Grekov Vestnik Chir, 1933, lxxxvii/lxxxix, 18

#### Blood, Transfusion

The survival of blood G Kovtunovič Sovet vrač Gaz, 1933, 1/11, 21

Acute hæmolytic anæmia, death after transfusion R V PAYNE Guy's Hosp Rep, Lond, 1934, IXXXIV, 65

Procedures for the treatment of myelogenous leukæmia

U V PORTMANN J Am M Ass, 1934, CII, 178 Blood transfusion F A Hudson and E E Cary J

Oklahoma State M Ass, 1934, xxvn, 15

The adjustment of the blood volume after transfusion A E BOYCOTT and C L OYLLEY J Path & Bacteriol [453]

Transfusion with cadaver blood I TIEHOMIROV and

P Onisimov Sovet Chir, 1933, iii, 297

The possibility of preventing malarial infection by blood transfusion A study of the bactericidal effect of reserve blood on the malarial plasmodia V ACLERMANN and A III ATOV Verhandl d Wiss Konf d Forsch-Inst f Blut-transfusion, Leningrad, April, 1933

Accidents in blood transfusion KEUSENHOFF [453] Zentralbl f Chir, 1933, p 562

#### Lymph Glands and Lymphatic Vessels

Biological tamponade for injury of the thoracic duct

G GUREVIČ Sovet chir, 1933, IV, 113

Clinical and pathological differentiation of the acute leukæmas, with special reference to acute monocytic leukæmia C E FORKNER Arch Int Med, 1934, lm, 1

A case of acute lymphatic leukæmia with leukæmia cutis and leucimides T J F FRANK Med J Australia,

1934, 1, 126

A case of chronic myelocytic leukæmia in which splenectomy had been performed P R WHEATLEY Guy's

Hosp Rep, Lond, 1934, lxxxiv, 77

Some cases of tuberculous polyadenopathy, transitions with Hodgkin's disease Marchal, Brun, Lemoine, and Bloch-Michel Bull et mém Soc med d hop de Par , 1933, xlix, 1490

A case of aleukæmic lymphadenosis G FABRI Policlin,

Rome, 1933, xl, sez prat 2006

Lymphadenoma associated with (a) hypertrophic pulmonary osteo arthropathy and (b) herpes zoster W E LLOYD Proc Roy Soc Med, Lond, 1934, XXVII, 224

#### SURGICAL TECHNIQUE

#### Operative Surgery and Technique, Postoperative Treatment

A report of four foreign-body cases with endoscopic removal W K SLICK J Michigan State M Soc, 1934, \xxIII, IO

Plastic operations on the face and breast H \( \Gamma \) O HABERLAND Zentralbl f Chir, 1933, p 746

Æsthetic surgery L MALBEC Semana med , 1934, xli,

Skin graft A Zamkov Sovet Chir, 1933, 1v, 51

The administration of chlorides to operative patients MfTILIT Bull et mem Soc nat de chir, 1933, lix, 1457 Continuous intravenous saline solution H BAILEY and J M CARNON Brit M J, 1934, 1, 11

Operations in suprarenal an emia M KRABBEL

Zentralbl f Chir, 1933, p 1225

The cause of death of patients with organic heart disease subjected to surgical operation W K Purks Ann Int Med , 1934, vn, 885

The present conception of surgical shock G W HAWK and R T SHARFR Guthrie Clin Bull, Sayre, Pennsyl-

vania, 1934, iii, 80

The significance of postoperative quantitative changes in the blood fat F PROCHNOW and L FINDEISEN ORVOSkcpzés, 1933, xxiii, 250

Postoperative changes in the serum proteins

ZOLTÁN Orvosképzés, 1933, xxIII, 317

The problem of thrombosis and embolism E MELZNER Klin Wchnschr, 1933, 11 1121

The prophylaxis of postoperative thrombosis LISCYMF. GFR Wien med Wchnschr, 1033, 11, 1018

Pulmonary complications following an esthesia Lemia J Michigan State M Soc 1934, vxxii, 18

The roentgen diagnosis of atelectasis, with special reference to the ground glass shadow and the degree of

pulmonary shrinkage C M Van Allen, W A LaField, and P S Ross Radiology, 1934, van, 27 [455]
Massive collapse of the lung, discussion of personal

cases Calonge Ruiz and Gonzalez Gil Arch de med cirug y especial, 1933, tiv, 1380

#### Antiseptic Surgery, Treatment of Wounds and Infections

Traumatology L Zeno Rev med d Rosario, 1933, XXIII, 1027

Street accidents in children and youths A GUTKIN Sovet vrac Gaz, 1933, viii, 301

Wounds of the hand with an indelible pencil L MICHON Lyon chir, 1933, xxx, 729

Arachnoidism or spider bites N O LADDY J South Carohna M Ass, 1934, xxx, 9

The treatment of wounds with the quartz lamp MARKUSE Sovet Chir, 1933, 1v, 40

The treatment of wounds with artificial light Κ Γ POLIACZEK Arch f Llin Chir, 1933, clxxv, 696

The treatment of injuries with ultraviolet light

LARIN and L GOLONZKO Sovet Chir, 1933, IV, 44 The treatment of the Chinese wounded at a base hospital in Peiping, China M D WILLCUTTS U S Nav M Bull, 1934, xxx11, 8

Simplified dressing for clean surgical wounds B I

GOLDEN Am J Surg, 1934, xxiii, 194

The chincal significance and prognostic value of agranulocy tosis in infections G RUBINATO Policlin, Rome. 1934, xlı, sez prat 7

Infection and Vitamin A in man R DEBRE and A Bussov Bull et mem Soc méd d hop de Par, 1933,

xlıx, 1431

The treatment of sterile, contaminated, and infected wounds E D Newell South M J, 1934, txvn, 53

INTERNATIONAL ABSTRACT OF SURGERI Bact n pb g in su g ry BUTOLANU STOLLA and COSTESCO Buil, et mém Soc nat de chir 1933 bx

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The roentgenological diagnosis of intracardiac calcifications P A BISHOP and H ROESLER Am J Roentgenol, 1034, XXXI, I

Hepatolienography LARRU Med Ibera, 1033, vvu,

Changes in electric potentials and rates of oxidation of the skin subsequent to roentgen irradiation M M D WILLIAMS and C SHEARD Radiology, 1934, XXII, 41

The roentgen therapy of inflammatory lesions in the region of the face S Delling 1933 Leipzig, Disser-Direct roentgen irradiation of intracavitary neoplasms

W R STECHER and T P LOUCHERS Am J Roentgenol, 1934, 2221, 64 The treatment of X-ray carcinoma and X-ray dermatitis

W S HANDLEY Lancet, 1934, CCANVI, 120

Roentgen therapy of surgical diseases O KINGREEN Therap d Gegenw, 1933, Ixxiv, 350

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Comparative researches on the action of radium and the roentgen rays H HOLTHUSEN Strahlentherapie, 1933, [459] xlv1, 273

The influence of the antiquity of the cell upon cell resistance to radium and X-rays R H MILLWEE Radiolog), 1934, TTII, 74

The nature and effect of radium treatment in gynecology PFEIFFER-MEISSNER 1933 Oberschlema, Kramer

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Heat production in diathermy treatments A HEMING-WAY Radiology, 1934, xxii, 84

Studies of children born of irradiated mothers Maurer Strahlentherapie, 1932, xlv, 691 Rdsch, 1932, 1, 50, 53

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ALSINA Rev de cirug de Barcelona, 1933, in, 44 Clinical control of chronic hæmorrhagic states in childhood I N Kugflmass J Am M Ass, 1934, cm, 204 Myasthenia gravis Fourth report the onset and cour of the disease W M Boothby J Am M Ass, 195

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The influence of pregnancy on experimental tumor growth in the white rat, volumetric studies on adeno-fibroma and fibroma L A Euge and L M R WULFF West J Surg, Obst & Gynec, 1934, vlu, 45

A study of spontaneous tumors of the mouse by the tissue culture method M R Lewis and L C STRONG Am J Cancer, 1934, xx, 72

A comparison of the action of some polycystic aromatic The question of experimental tomato tumors of Schuerch and M Zehnder Muenchen med Wchnschr,

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# International Abstract of Surgery

Supplementary to

# Surgery, Gynecology and Obstetrics

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Editorial Communications Should Be Sent to Franklin H Martin, Editor, 54 East Erie St., Chicago Editorial and Business Offices 54 East Erie St., Chicago, Illinois, U. S. A. In Great Britain 8 Henrietta St., Covent Garden, London, W. C. 2

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## ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

#### HEAD

Gallavresi, L. The Roentgenological Study of Changes in the Temporomandibular Articular Interline (Studio radiologico di alterazioni dell' interlinea articolare temporo-mascellare) Radiol n.ed , 1934, \*\*1, 35

The author believes that in the roentgenological study of the temporomandibular region it is best to use both Kochler's position and a sagittal projection through the articular interline. He discusses the technique of these projections, shows them by roentgenograms, and cites clinical cases showing their value in clearing up the diagnosis of obscure lesions of the pharynx, head, and sinuses

ELGENE T LEDDY, M D

#### EYE

Duggan, W F Visual Results in Cases of Intra-Ocular Foreign Body, A Study of 270 Cases Arcl Ophth , 1933, x, 768

In 1932 Kiehle stated that of most importance in every case of intra-ocular foreign body are the degree of vision retained and the length of time the foreign body was present in the eye. He said that an estimate of vision six months after the injury is not significant, that light perception or vision of fingers at a few feet is nothing of which to boast, and that the longer the period of time elapsing after removal of the foreign body, the greater the diminution of vision He concluded that the final estimate of disability should be delayed at least two years, and that the patient should be re-examined periodically

Duggan reports the visual results in 270 cases of intra-ocular foreign body from the private practice of Arnold Knapp previous to 1920 and the Herman Knapp Memorial Eye Hospital, New York, in the period from January, 1920 to December, 1931, inclusive One year was taken as the minimum followup period of the definitive series, because if two years had been chosen the number of available

cases would have been reduced by 50 per cent. Two hundred and sixty-one of the patients were males The extreme limits of time during which the foreign body was in the eye before removal were two hours and twenty years. In the discussion the cases are

divided into 8 groups as follows

Group 1 Cases in which the patient was followed up less than one year after the removal of the foreign bods. In this group there were 175 cases in which the patient was followed up for from one week to ten and a half months However, when the foreign body had remained in the eye for more than four months it had probably caused sufficient degeneration to render the true visual results unobtainable. In 16 cases the foreign body had been in the eye for from four months to twenty years Of these, vision was less than 20/200 in 62 5 per cent, 20/200 in 12 5 per cent, 20/20 in 18 per cent, and unrecorded in 63 per cent. In the 159 other cases there were 38 enucleations Of the remaining 121 cases, vision was lost in 9 1 per cent, less than 20/200 in 23 1 per cent. from 20/200 to 20/50 in 14 9 per cent, from 20/40 to 20/30 in 19 per cent, 20/20 in 19 per cent, and not recorded in 149 per cent The complications included cataract in 18 cases, aphacia in 27, secondary membrane in 5, detachment of the retina in 8, vitreous evudate in 16, siderosis in 1, a scleral wound in 23, and phthisis in 8

Group 2 Cases in which the patient was followed up for one year or longer after removal of the foreign body In this group there were 53 cases In 10 the foreign body was in the eye for more than four months. In 8 of these 10, vision was less than 20/200, in 1 it was 20/70, and in 1 it was not recorded Complications included cataract in 2, detachment of the retina in 4, vitreous exudate in 1, and siderosis in 6 Of the remaining 43 cases in this group, vision was lost in 2 4 per cent, less than 20/200 in 28 6 per cent, from 20/200 to 20/100 in 0 5 per cent, from 20/70 to 20/50 in 7 1 per cent, 20/40 in 7 1 per cent, 20/30 in 16 7 per cent, and 20/20 in 28 6 per cent The complications included cataract

INTERNATIONAL ABSTRACT OF SURGLR1 in 6 aphacia in 15 secondary membrane in 5 de

in a appacia in 15 secondary membrane in 5 de technique of the tetina in 3 vitrous esudate in 6 sidenoss in 1 secral wound in 6 and phthiss in 1 control to 1 secral wound in 6 and patterns both was in Group 3 Cases in v bich the foreign body was in Group 3 Gases in v bicn the loreign body was in the eye for four months or more. In a stoup in cluded the 16 cases in Group 1 which were followed in the case in Group 1 which were followed in the case in Group in the Case in the case in Group in the case in Group in the case in the op less than a ) car and 10 cases in Group 1 which were convened to the control of the control o sere followed up for more than a year. The con nere unioned up for more than a year. And con tinued presence of a foreign body in the eye for four months or longer leads to poor visual results in spite nonces or tonger leads to poor visual results in space of ultimate removal of the fore gn body. \\ \) 1510n RAS or unimate removator the rore gu pody siston was than 20/200 in 18 of the cases in this group 123/2011 20/2011 3 3nd not recorded m 2 The complications included cataract in aphacia in 14 secondary membrane in 1 detach appears in 14 secumenty menunance in 1 netation in 7 vitrous evidate in 1 ment of the return in 7 viteous evaluate in 3 s decosts in 9 and seleral vound in 2. The fact that 9 of the 16 cases of siderosis occurred in this group

y or the to cases or solerous occurred in this group offers a partial explanation of the poor visual results Group 4. Cases in which the form a sugar acoust temporer Theorem Cases in which the following temporary was not temporer. These cases are distilled into 2 subgroups. (1) those followed up less than four mouths after the Any cause to account of the property of the pr months because most enucleations should be done mounts because most enucleations should be done within that length of time and by the end of that tions tract tength of time and by the gan of that time sufficient degenerative changes have occurred to result in a defin te loss of vis on In the first sub to resolve in a neum to those of the enrecession in 16 gr up onere were 21 cases with enucreation in 10 (66 per cent) detachment of the tetina in 1 vision of 20/100 n Vi ion of 0/200 in or 20/100 n vi ion or 0/200 in amature cataract and vis on of less than 20/0 in 1 In the cataract and vis on or less than 2000 of in 1 40 tm second subgroup there tere 21 cases with eneclea second subgroup there i ere at cases w on enucira tion in 8 [38 per cent] detachment of the retira to and a mature ton in o 150 per cent) actachment of the retina in 3 (in 2 of which the detachment vas preceded by 3 (in 2 or which the detactiment, vas procedure) as a soleral incision) and siderosis in 5 Vision vas

a action interaction and and and a supervision of the second of the seco Group 5 Cases f cleral wounds detachment f the retina and vit eous erudate cler 1 ound operative or accidental definitely favor detachment of the retina or the formation of a vivreous etudate or both. Hilly two and eight tenths of the scie al wounds in the cases set eved vere followed by these wounts in the cases set even vere romoven by the conditions. In the cases we thout a selectal wound the inc dence of et nal detachment 1 as 4 7 per cent and that of vitr ous vudate 6 per cent per cun-Group 6 C ses f siderous S de osts nas found

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Group 3 Cases in which changes of vision oc Cutred over a feriod of time. There were 9 cases in which vist a furnation time and white 9 cases in which vist a changed remarkably over a pen d of which you in changest termanally vives a pen of the but leaded to remain stationary after from time out tengen to remain stationary after itom three to twelve months. The author therefore be taree to tweive months and during successive better that il ere is special value in the rep it of a series of cases in which one year was the minimum series of cases in which one year was the minimum time of folio; up after removal of the fore gn body mie or tomor up arter removar or the fore ya bud Sj. mpathetic ophthalmia developed in 2 of the 27 cases studied but did not occur in the 42 cases in which the foreign body was not removed or among RAIGH the toreign poory was not removed or among the 26 cases in which the fo right body had been in the case had been to be the the so tages in which the to tight down had taken in the eye for from f ar months to t tenty years bef re the eye for from a sur montas to a contract your source. It was rem yed The nly nay to d'cover whether

it was rem ved the my may to d cover whether visual function tends to decrease after the temoval Visual nuction tenta to decrease after the removal of a foreign b dy is to compare the V sual results in the same case at period c intervals

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in a recent review of the meetature are that a war reports of only seventy cases of Mooren sulcer of the repo ts or only severity cases or Mooren source or the control to the first distribution of the control to the that most ophthalmologists of experience see one or that most opputualitionogists in experience see one or more cases. Mooren described this type of oleer The d case always begins at the ma gin of the

the a case annays begins at the ma some or cornea progresses forms d in literallar processes and does not stop so far as my experience goes until and does not stop so far as my cape tence goes unit, the whole corneal surf ce is intolved. It is done a ten tie that a narrow gras line of infiltration to the changes out multy with the progress of the many and the many an d sease marks of the border of the unrolled co nea This i ie is at the same level as the healthy to nea | 1ms t | ne is at the same level as the matter po t on of the | mea and a | tille higher than the d s por tou or the times after a rathe arguer than the use of hortion of that it always and under all circumstances of the circumstances of cas o Portion o that it always and under my cir cumstances appears to 1e undermined While the cumstances appears to re uncommon variables appears to the appeareres is transparence to the development of a close superfic network of vessels begins on the dessed port on network of vessels begins on the decased porcess, spite of the geat pain and the rapid format on new yeels. I have never een hyppy for occur,

heither does perforation occur spontaneously In the beginnin one or more deep gray infilita the decomposition of the following the follo snauno tur ow in a manner sum ia to the iornation of a ma ginal ulcer. The ulcer p orgresses toward the center extend pg al o at both nds to surround the center extend ng at viat buth nos to sortound the control of the state of the control of the con to nea Simultaneously it ample occurs at the pe pher, with the f rmation of new vessels. For a pen'd / days omplete but the end of that time the infiltration Beeks hal ng may appear to be ompare but the end of that time in minutation extend farther critially Congestion may be only with the sht lamp the corner 1 st beyond the g ay with the suit tamp the connect job beyond the key borde shows fine opa it es and vellowish foc of infiltrat n At th Imbus the conjunct is shows

marked swelling and inflammation The limbus is often raised in a red ring around the diseased area This zone of scleritis and episcleritis may early suggest sclerosing keratitis, but in the latter condition ulceration of the cornea occurs rarely if ever Mooren's ulcer usually requires from three to six months to cover the cornea The histological picture is that of a chronic infiltration, chiefly with round cells, of the anterior third or two-thirds of the cornea The loss of substance usually occurs in the anterior third, and there is replacement by a thin layer of vascular connective tissue except near the advancing border, where the infiltration extends under the epithelium and into the stroma of the previously uninvolved cornea Granulation tissue is present over the sclera beyond the limbus, and there may be loss of substance in the sclera itself

The condition has been ascribed to (1) the presence of an infectious agent, (2) a general state of malnutrition, and (3) a trophic disturbance due to disease of the fifth nerve. However, there is no conclusive support for any of these theories. The prognosis has been considered almost hopeless.

The treatments reported have included the use of foreign protein, cod-liver oil, phototherapy, and cauterization Krassó reported five cases thought to be abortive forms of Mooren's ulcer in which rapid healing occurred under treatment with Bucky's border rays (Grenzstrahlen), but Gifford believes that they were not true cases of Mooren's ulcer

Attempts to produce hypotony have been rarely reported. Fuchs reported two cases with successful results, one in which a small incision was made in the advancing border and re-opened five times in fourteen days, and another in which peripheral paracentesis was performed fifteen times. In the first case vision of 5/8 was obtained, while in the second vision was limited to the counting of fingers. Wibo employed puncture with the actual cautery successfully. In three cases Nechtich obtained successful results by the use of the cautery to produce a fistula. The fistula remained patent fourteen days.

The use of a conjunctival flap has been tried, but has often failed Kreiker attributes the failures to the use of a too-small flap, retraction of which again exposes the advancing border of the ulcer. He has reported three cases in which the ulcer was successfully treated with a corneal flap from above which was large enough to cover the cornea completely. After two or three months a small opening was made in the conjunctiva over the unaffected cornea. The flap then retracted, exposing all of the unaffected cornea. There was no recurrence. In one case vision was 1/4, but in the two others it was less because of the late stage at which the operation was performed.

Gifford reports three cases in which healing of the ulcer was effected with good visual results. In two, a delimiting keratotomy was done, and in one a conjunctival flap was used. The keratotomy consisted of an incision 4 mm long, just central to the advancing border. The wound was kept open for ten days.

In the two cases in which this operation was done vision was 20/50 and 20/30 respectively. In the latter case there was at first a corneal astigmatism of 7 diopters, but this disappeared in two months. In the third case preliminary treatment with trichloracetic acid and phototherapy seemed to arrest the ulcer for a week, but at the end of that time the lesion became active again. It was then thoroughly touched with trichloracetic acid and a conjunctival flap covering the ulcer and a good margin beyond, but not covering the entire cornea, was turned down Vision with astigmatic correction was 20/40 after three months. So far, the flap has not been disturbed

Delimiting keratotomy is a safe procedure and less disfiguring than the use of a flap. If a flap is employed, it should cover the whole cornea or extend well past the advancing border of the corneal ulcer, and should be made adherent to the ulcer by the application of trichloracetic acid. The effect of delimiting keratotomy seems to be due to the increased nutrition and supply of antibodies resulting from a reduction of tension, and perhaps also to the epithelial barrier formed at the site of incision, an effect which is of value whether the disease is infectious or degenerative.

© S Plater, M D

#### Igersheimer, J The Pathology of Tuberculosis of the Anterior Usea Arch Ophth, 1934, x1, 119

The principal histological proof of tuberculous infection is the presence of the epithelioid tubercle. This occurs most frequently in the usea. The great difference in reaction to invasion of the tubercle bacillus would be of great importance if it were possible to demonstrate the presence of the bacilli in all tissues. The reaction is of three main types (1) acute and subacute, (2) chronic and recurrent, and (3) special types

The acute and subacute reaction occurs in persons under twenty years of age, affecting one eye for weeks or months The anterior and posterior chambers are usually involved, but not the cornea, choroid, or retina Epithelioid giant cells and lymphocytes predominate Hypopyon, caseation, and perforation occur, and tubercle bacilli are frequently found

The chronic types of reaction occur in adults and involve both eyes. Epithelioid cells are not found regularly, and caseation and perforation are rare. Other tissues of the eye are involved. The tubercle bacilli are seldom found.

The special types are rare. In some cases the necrotic process is widespread, while in others a generalized sclerosing tuberculous large-cell hyperplasia in the eyes, bones, skin, lungs, and lymphatic glands occurs.

Virgil Wescort, M.D.

## Walker, C B Retinal Detachment Am J Ophth, 1934, vvii, 1

Diathermy has come to be one of the most widely used methods of treating retinal detachment although the older Gonin and Lindner-Guist methods

st Il have their place and in some cases a combination at it have their proceand in some cases a combination of methods may be indicated. Micropuncture yields of methods may be murcated afteropurative views the highest average of successful results with the the nigoest average of succession results what the least labor and trauma and the lowest incidence of scast stoor and trading and the spress incidence of unlayorable sequely than any other method as ver advocated lery small stops are necessary on micro advocated tery small stops are necessary on micro P as to keep the pins from going too deep but in the apparatus used by the author it is not necessary for application users my the author it is not necessary to the micropins to be insulated if the seleta is dry the micropins to be insulated if the sciena is viry lith the use of the author's micropias overdosing does not occur and the scleen receives a small degree of treatment (Lasson effect) which we dens the of treatment (carsson energy watch which some mouth of the outlet and thereby provides better and mouth of the oduer and thereby provides octive and more prolonged drainage. As overdosing may result more protoused trainage as overtooms may resort when the cuttent must be used to pout our insulation pass especially multiple types. Single non-insulated cleanable pins which can be rotated to aid in their contract of the removal are to be preferred The use of the latter prolongs the operative time only very slightly as pruongs the uperative time only very sugarity as in an unobstructed area twelve pins can be placed in about a minute

labout a music Indum hardened plattnum is the best metal for Artaum natureneu pastiaum is the best metal for etachable micropuncture pias because it can be perfectly cleaned by heating it to redness in the perfectly cleaned by beating it to revuess in some flame it gives off no oudes and produces no narricle is left in the eye it. nation name it fives on no ordina and produces no siderosis if by chance a particle is left in the eye if sucrosis it of chance a particle is left in the eye at the used repeatedly without undergoing de

Reports of loss of micropins without threads at Actions or cost or interopting of insulation collars dur tached and of the preaking of insuration courars our ing use are numerous. When the count fauls to the wave are numerous fruch the count has to check and it is uncertain whether the lost pin is in check and it is uncertain whether the lost pin is in the orbit or on the floor \text{\text{ray examination may be}} necessary. Constantly threaded indium platinum nucropins have been found safe and satisfactory

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Retinal D tachment A h Ophih
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Lindner states that the cause of retinal detach Lindner states that the cause of tethnal netarn ment is a retinal tear and this can be proved by mechanicai means A mouet retina can be con structed by coating the interior of a round glass flast structed by coating the interior of a round gives mass minum powder to reader it more visible and somewhat minum poweet to render 11 more visitore and somewhat adherent II an artificial bole with a protruding dap admerent is an attractas note with a protrioung mag is made in this layer and the flask rotated detach ment soon occurs. When the motion of the flask ceases the detachment tends to flatten out principle has been utilized in the cye by the use of Locabrille or hole spectacles which obviate eye Locadoniae or note speciatics with the opening of the eye however there is some connovements in the eye nowever there is some even traction of the solid vitreous in the ne ghborhood of traction of the sound varicous in the ne successor of the detachment which causes the retina to buckle so

the determinent which causes one ferms to buckete so that it will not return to the normal position on immobilization. The author believes that in retinal inmountation there is a reversed stream of intra ocular fluid moving from the choroid back through occupat many maying arous one emotions back curvough the retinal hole absorbed by the choroid and the remain none absorbed by the Choro of and extending figuration of the vitrous After this has occurred the use of Lochbrille will ause a definite flattening of the detachment

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occurs in environments my open and senting an enese conditions there is either detachment of the retins or bquefaction of the vitreous Quenation of the vitrous

In an attempt to prevent the formation of a hole

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3 Education and restriction of ocular move ments by optical means. This method is simpler and ments by optical means this meanou is sumplet and more satisfactory. Classes with strong peripheral more satisfactory biasses with strong perspiseral aberration may be prescribed. In my opia of over 10 appearance in the prescribed an involve of the diopters I unking lenses may be prescribed. They should be inserted in the frames with the surface

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Lindner has never performed a prophylactic operation but believes that it may some day be one when the danger of detachment is immigent

Shapland C D WILLIAM A MANY JR. M.D. pland C D Retinal Detachment and 113 Treatment by Surgical Methods A Revi wol 425 Cases B 1 J Ophib

Of 425 cas s of simple retinal detachment seen at UI 425 cas 8 or simple retinal detaconnect seen at the Royal Lond n Ophthalm c Hospital in the the Koyat Long a Opuniana c mosphas as on period between December 25, 1929, and January 7 period octaven Determore 25 1929 and January 1933 3 1 here operated upon by the ignipuncture 1933 2.1 nere operates upon by the Europeacure method of John 70 by the Lindner Cu st multiple from the principle of operation and 22 by the fluoring method of Jessian 10 22 by the discovery method of Jessian 10 27 by the principle of The next second in any constant of the principle of the prin measure was employed. The patients ranged in age from eight to eighty two years The I average age was forty two and eight tenths years Two bund eight tenths years. Two bund eight tenths years the raverage age and sarty were males. Sixty two and three tenths per cent of the detachments occur ed in myopes 21 9 per cent of whom had myopra of over 10d opters. Thirty one and one tenths per cent of the deters and your and one tentus per cent or the de tachments occurred in enumetropes and 6 6 per cent na aphacic eyes. In 6 cases the detachment was in apostic eyes in o cases the detailment was bilateral. Trauma played a role in 43 9 per cent of the detachments in emm tropes and in 15 5 per cent

One or more holes in the ret na were f und in 26.2 per cent of the ces In 00 4 per cent I these they per tent or in the equator and in 23.8 per tent they were an item of the equator and in 23 o per tent the were 115 etamples of round

holes, 113 cases of disinsertion or anterior retinal dialysis, 105 arrow-head tears, 20 radial slit-like tears, and 10 irregular rents. The temporal half of the globe was the most common site of tears, 79 6 per cent of the tears being in that region.

Of the 221 patients operated upon by the Gonin method, 27 6 per cent were cured and 10 1 per cent were benefited Of the cases in which the detachment had been present for less than six weeks, a cure was obtained in 40 per cent, whereas of those in which it had been present longer than six months a cure was obtained in only to per cent. In 62 3 per cent of the cases with a successful result, I ignipuncture was sufficient. In 1 o per cent, 3 punctures, and in 16 per cent, 4 punctures were necessary Complications associated with this method included secondary rents, vitreous hemorrhage, triumitic cataract, and transient uveitis. The technique of Gonin was followed except that after the first six months the galvanocautery was used instead of the Paquelin cautery as the latter was found unreliable

Of the 79 patients operated on by the Lindner-Guist method of multiple trephining with a 15-mm trephine and the use of potassium hydroxide, 253 per cent were cured and 152 per cent were benefited. In 7 cases completion of the operation was prevented by early perforation of the choroid. Subtraction of these cases and of a few which were operated on by a modified procedure raises the incidence of cure to 317 per cent. Complications included secondary rents, vitreous hemorrhage, uveits, vortey vein thrombosis, and subretinal

hæmorrhage

The diatherms method advocated by Larsson includes superficial treatment of the sclera over the affected area and subsequent perforation of the sclera over the tear with the electrode or by means of a trephine opening. Of the 72 cases treated by this method, a cure was obtained in 47 2 per cent and improvement in 13 9 per cent. Except for a few secondary holes, complications were rare. The higher incidence of cure in the cases treated by the Larsson method of diathermy, the ease with which the method can be carried out, and the lower incidence of complications indicate that the Larsson method is the most satisfactory procedure for the treatment of detachment of the retina.

WILLIAM A MANN, JR, M D

Pischel, D K Detachment of the Retina, Its Present Operative Treatment im J Ophth, 1933, XVI, 1991

Pischel discusses various types of operation for retinal detachment and reports the results of the Safar operation on fifteen eyes. He emphasizes the importance of exact localization of the retinal tear

The Gonin operation, which aims at direct closure of the retinal tear, requires only a simple armamentarium and is easily and quickly performed, but demands especially accurate localization of the tear. Other disadvantages of this procedure are burning of the retina, extensive scarring and sec-

ondary contracture with the formation of new holes, the sudden egress of subretinal fluid through one large opening, and the difficulty of using the procedure in cases with large holes or multiple tears

In the Lindner-Guist operation, which aims at walking off the tear, the localization is easier, there is a possibility of including several holes in a single circle of exudate, and thorough drainage by many openings permits the retiral to float back into the proper place. The disadvantages of the procedure are the very difficult technique which prolongs the operation, the difficulty of reaching back to the posterior pole, and the possibility of intra-ocular hamorrhage.

The Safar operation, which is also a walling-off procedure, has all of the advantages of the Lindner-Guist operation. In this procedure the retina is kept away from the choroid throughout the operation by unescaped subretinal fluid, being thus well protected from trauma, there is no possibility of intra-ocular hymorrhage as the vessels are thrombosed, and all

parts of the eyeball are readily reached

The Larsson operation requires no localization beyond a rough estimate and permits treatment of detachments in which no hole is found. The technique is simple. The disadvantages of the procedure are the single trephine hole for drainage, extensive destruction of the choroid and return, extensive treatment of the sclera, and the uncertain transscleral dosage.

The cases reported included eight with an extremely unfavorable prognosis. In one of the latter the result was favorable, but in others the treatment failed. Of the seven favorable cases operated upon by the Safar method, a cure resulted in four. In a fifth the operation caused re-attachment of the separation retina, but a new separation occurred in another part of the eve. Exact localization was accomplished with the aid of the perimeter. Following the operation both eyes were bandaged for from eight to ten days, and after removal of the bandage stenopeic spectacles were worn for about three months.

WILLIAM A MANN, Jr., M.D.

Caeiro, J. A., Malbran, J., and Balza, J. The Treatment of Retinitis Pigmentosa by Resection of the Cervicothoracic Sympathetic (Tritimiento de la retinitis pigmentana por la resección del simpático cérvico-torácico) Rev. Asoc med argent, 1933, vivi, 3403

The authors report five advanced cases of retinitis pigmentosa which they treated by extirpation of the middle and intermediate cervical ganglia and the stellate ganglion and resection of the vertebral nerve. The first to resect the cervical sympathetic in retinitis pigmentosa was Royle. The only other similar attempts in this direction known to the authors are those of Meighan (one case) and Campbell. Royle resected the sympathetic trunk at the level of the second cervical ganglion in five cases. Meighan extirpated the superior and middle ganglia. Both surgeons reported striking improvement in the

acuty of vision and enlargement of the insual fields. The authors regard sympathetomy of the interaction across of please as dangerous because of the resulting wide gaing of the palpehal? is use and the peak maked marked medicals. They believe that their method gives the best demact results by suppress, (probably) all of the unilateral sympathetic inner vation of the ext.

The general effects were limited to precordial pain and slight fleeting pains radiati & to the shoulder and arm. The ocular changes y ere those of Horner s. syndrome. In two cases pto is appeared only after from ten to twelve hours. Myosis always occurred immediately Conjunctival injectior reached its maximum vithin twenty four hours and was a companied by a sensation of intense heat and some tanes of pulsation of the exchall which ontinued for tive or six days and then gradually decreased. En onhthalmia and hypotension of the facial muscles vere variable Acuity of central vision vas increased in all cases in some considerally. Enlargement of the visual fields occurred in all cases but was slight the helds never remotely approaching normal. The appearance of the fundus and night blindness were un hanged. The authors state that it would be illogical to expe t bett r results as these first tenta tive operations were limited to advanced cales. The effert of the operation is probably limited to improvement of the ocular cir ulation. Although the ascular theory of the pathogeness of retiritis nigmentosa is no longer generally accept it any procedure which favorably influences the choroidal circulation deserves con derat on believe that th is results are end uraging and they hope to t , the method on patients in earlier stages They report the r cases in detail

M E Morse M D

#### Barkan H Bilateral Choma Treat d by Radium

Irrad ation with ra lium or the roentgen rays has become a will es ablished procedure in only a few eye conditions. Among the e are ep bulbar car cusoma sarcoma of it e ind revus and intra ocular timory it highoma involving both even.

The author discusses the indications for () enucleation with subsequent irradiation of the orbital contents and () direct it adiation of an intraocular tumor without enucleation

He state that when only one eye is involved and the other has useful vin one nelection of the af fected eye is advisable whereas in ca est of bildered times and those of times rundown the only useful eye irradiation is best. In the latter irradiation is associated with much greater danger to life than enucleantly had not been the latter irradiation in the category are not blinchess. Other cases in this category are those of sar own of the choroid in the only useful e e and the rare cases of meta taitic carcinoms of the choroid in carcinoms of the choroid.

The author reviews the cases reported in the l tera ture in which radium was applied externally and

the see in which it was inserted as close to the tumor as possible. He then reports a case of bilateral glioma in which on September 13 1932 two 5 mgm reedles were placed within Tenon's capsule as far ba k and as near the growth as possible after the right globe which was completely filled with the tumor mass had been enucleated. The dosage amounted to some shat le s than 400 mgm hts at 1 cm On December 28 treatment amounting to about 2 500 mgm hrs at 1 cm was given On April to 1033 there appeared to be a detachment with no solid mass beneath it The fundal p cture at this tim suggested that further treatment by the first method and possibly also by a combination of this m thad and cross fire application of roent en rays was feasible On September 15 there seemed to be considerable improvement. On November 2 the left eye was enucl ate I and on examination showed extensive retinal detachment fresh tumor masses and s' ghtly ircrea ed tension. Treatment was then discontinued as it was believed that the processes of destruction had reached their maximum and proc esses of repair of great importance in checking the general metastass and walling off any remaining tumor cells were still taking pla e

LE LIE L McCoy M D

Coleman C C and Hill E Cyst of the Optic Nerves and Chiasm Associat d with an Epi thelioma of Rathke s 1 uch 4 ch Ophia 1934 x 4

In treating a case of cyst of the optic percess and chiasm a sociated with an equithelms of Rathkes pound the authors came to the conclus on that they were dealm is the no separate crist; timons due to early embr once dis not consider of the see belonging to a think a pound. The growth behind the chiasm be a trained to the compains a non-main regiment of the compains a non-main regiment of the pound. The two tumors had no connect on

In expla ning the cystic growth of the optic nerve and the m the authors state that in early embry one life the fetal cleft is oven below. The optic stalks have not yet closed in to become solid cords formally the central retinal vessels enter thr ugh the cleft to become incorporated in ide the optic ne e Interf rer ce with proper clo ure of the fetal left leads to col bomata In vew of these facts the a in is belie e it po sible that abnormally placed tis ue may become incorporated within the n ries and hissniff thas come into contact with the open opt c stalk in early embryonic life and that as a re ult a new growth may develop and a cyst c spa t with an ep ndymai iming may be formed in agreement with the vell known hypothe is theory that turn is are can ed by the multiple ation f emb y nic cells which become di plac d dering fe al life. In this connect on Cushing speaking I

the ran ophar agromata savs. Under the ap-

he m bas s at he from some cell in asion (anlage)

in early embryonic life Lestie L IcCor M D

#### HTUOM

Pfahler, G E, and Vastine, J H Irradiation Therapy in Cancer of the Mouth Technique and Results Radiology, 1934, NM, 15

Pfahler and Vastine state that cancer of the mouth is curable in the great majority of cases if it is treated early, thoroughly, and skillfully from the beginning by irradiation. At the present time, however, recovery results in only from 25 to 35 per cent of cases

No one technique is applicable to all cases Each case must be dealt with individually However, the principles of the technique can be fairly well standardized. These are based primarily on the principles of irradiation therapy. Bergome and Tribondeau found that cells are most radiosensitive during mitosis, and Dominici found that they are more radiosensitive the more closely they approach the embryonic type. Regaud and Lacassagne noted a greater differentiation in the sensitivity of the cancer cells to rays of shorter length such as the highly filtered gamma rays of radium.

The authors describe their methods of irradiating various lesions, which consist chiefly of surface ir-

radiation

Of the total number of cases treated by them since 1920, recovery resulted in 29 3 per cent, and of the 171 cases treated by the technique they use today, recovery resulted in 39 2 per cent

JAMES BARRETT BROWN, M D

Kennedy, R. H. Epithelioma of the Lip, with Particular Reference to Lymph-Node Metastases Ann. Surg., 1934, 1011, 81

Kennedy reports on 246 cases of carcinoma of the lip in which the initial treatment was exclusively surgical. No opinion is offered with regard to the value of irradiation treatment of the lip lesion, but the importance of thorough removal of the cervical glands is emphasized.

The duration of the lesion averaged over nine months, and two-thirds of the patients had extensive lesions at the time they were admitted to the

hospital

Palpable cervical lymph nodes were present in 60 per cent of the cases, and 33 per cent of them proved

to be metastases

Metastases were found in 14 per cent of the patients in whom no cervical lymph nodes could be felt

In cases with metastases the average age is somewhat greater and the duration of the lesion somewhat longer, but brief duration and small size of the lesion does not assure safety from metastasis

The grade of the lesion does not appear to in-

fluence metastasis

In the cases reviewed, 244 neck dissections were performed with a hospital mortality of 11 4 per cent

Of 147 patients traced, 67 per cent are alive and well Sixty are well after more than three years and 31 after more than five years

Of 32 patients with metastases who have been traced, 34 per cent are alive and well Seven have been well for more than three years

JAMES BARRETT BROWN, M D

Pierce, G. W., and O'Connor, G. B. A New Method of Reconstruction of the Lip. Arch. Surg., 1934, xxviii, 317

In the literature the authors have found the descriptions of sixty-five methods of lip reconstruction Following a review of the anatomy and physiology of the mouth, they give the reasons for dissatisfaction with some of the older methods. The earliest procedures failed because they did not provide an epithelial lining for the lip. Many reconstructions result in a short, tight lip, and in most procedures muscular action and innervation are disregarded Flaps which do not conform to the best lines of tension as shown by Langer produce added deformity

The description of the authors' method is supplemented by four drawings and eight photographs The principle of the operation is the use of an ascending flap of skin and subcutaneous tissue raised from each nasolabial groove The supply of tissue is sufficient, the scarring is minimal, the tissue matches well, and there is no interference with normal innervation One flap is brought down and reversed to form a lining, and the opposing flap is brought down to form the outer surface Small flaps of mucous membrane are taken from the lateral borders to help form the angles of the mouth and the vermilion border The bases of the pedicles are returned in two weeks, and a final retouching is done after two or three months

This method is applicable to the upper or lower lip. The restoration of sphincter action by the bridging of the divided ends of the orbicularis oris muscle is shown in the photographs.

The article has a comprehensive bibliography
THOMAS W STEVENSON, JR, M D

Esser, Y F S Arterial Supply of Upper Lip Plastic Ann Surg, 1934, NIX, 101

Esser applies the name "biological flaps" or "artery flaps" to flaps with pedicles which consist of little more than the artery with the accompanying veins, nerves, and lymphatics supplying a given area. The flaps resemble leaves supported by a thin stalk. The thin pedicle is less subject to vascular obstruction due to angulation or torsion than a pedicle containing a broad band of skin, and does not require sectioning and replacement later. The flaps carry such a rich blood supply that they survive on an indolent base such as an X-ray burn

Artery flaps are most useful on the face where the temporal, occipital, frontal, angular, facial, and supra-orbital arteries may be employed. Before the operative area is sterilized the course of the artery is determined by careful palpation. The course of the vessel and the outline of the flap are then marked out with tincture of iodine. A single incision is made over the artery and carried laterally around it so

condition

that a coating of tissue is left for protection. The diameter of the cross section of the predict may vary from that of a much to that of a pencil. A cut must be made also from the defect to the picle in order to prepare a new subcutaneous bed for the pedicte. The defect produced by the formation of the graft is closed by suture if possible or by a Therech graft. The author cuttion against prey ure dressings especially on th turning point of the pedicle. He often simply dusts the wound with caloned

The available artenes on the head and a number of dispost our sings see and position are shown by drawings. In restoration of the upper lip the main intemporal are ry its anterior branch or the angular artery in used as a rule. Breause of its harry strikes the main arters can be employed only in the cases of men. Photographs of three patients with reconstruction of the upper lip are shown. In the case of one of these patients and it restoration was also once carry and was accomplished by the author's

method of cheek rotation

Esser has found the described method useful in
cases of harel p in which a previous repair has left a
tight upper lip with entropion. The article contains
the photographs of two patients treated for the

#### NECK

THOMAS IL STEVENSON JE M D

## McGibbon J E. G. and Mather J H. Vallecular Dysphagia Beit M J. 1933 u. 013

The authors report on a group of cases of vallecular dysphaga The dysphaga is caused by musticated food which fills the vallecular and forces the glottis back against the posterior wall of the pharry larger and cospolyage recels no abnormal ty but recentgen logical examination of the pharry larger and cospolyages recels no abnormal ty but recentgen logical examination discloses a dela in the passage of the opaque medium in the lower pharrys. The vallecular are two fosser stated in the anterior appect of the pharrys assistated in the anterior appect of the pharrys assistated in the anterior appect of the pharrys assistated in the anterior appect of the pharrys and the capitots. The fosse are separated from each other by the glosse pulgotic fold. The floors of the halfecular his immediately above and behald the hould hope the level of the thurd cervical vertical

A diagnoss of primary vallecular di phagia as madein cassers in hich no pathological lesions in ted on direct or indirect examination. During and after svallowing their se discomfort reterable to the hich bone. In some cases the discomfort is intermited and per its for some time after the rige time of food In one of fourteen cases it had been noted for tweels and in another for two verses. In some cases the onset is insudious whill in other it is sudden and without Known cause.

A diagnos s of secon lary vallecular dysphagia is made in ca es presentus, the same symptoms as the primary type but in which exam nation reveals a lesion in the referancia oil ed in swallowing or in the phary in or "esophagus" throng the primars con dut in resulting in secondary allecular d subagia are bulbar paralysis bilateral paralysis of the current nerve due to a mediastinal tumor paralysis of the vagus due to tabes bottlinus infection or invasion of the upper end of the enophagus by carrinoma uphitheritic paralysis and local lesso is such as carrinoma of the enophagus pharying and pouch and posternous caretinoma.

The diagnosis is made by correlation of the find ing of direct and indirect physical examination and

roentg a examination of the pharynx

In thereen of the authors fourteen cases of the primary form the treatment consisted of explanation and re assurance. One patient could not be traced. The authors suggest that the free border of the epiglotis might be removed if the condition persists in the secondary, type the primary cause must be treated. MANGEL ELICITISTIENT WID.

Friedgood H B Experimental Exophthalmorand Hyperthyroldism in Luinea Pigs Clinical Course and Pathology B il Joh s Hopker Hopp Balt 1934 by 48

Simultan ous studies of the basal metabolic rate and the thyroid gland were carried out on thirty go nea pigs given daily intraperational injections of extract of the anterior lobe of the patientary gland over a period tranging from forty eight hours to one hundred and mosety days. Six guin a pigs were used as controls

as contens
The basal metabolic rate showed three datunt
perso for variations. In the first persod there was a
rought marked increase which began sometimes
within from twenty four to forty-eight bours and
exceed the second and the second to the second to
the second to be second and fourteenth do not the treat
ment. The maximum value and the rap dity with
which it was rateched secured to depend only in part
on the quantity of the daily dose of the extract asin
undividual case the resporse could b sharply our
tailed from the very beginning. Daring the first
period the basal pulse rate increased approximity
to per cent and the basal weight decreased to a
point from 6 to 27 per cent below the normal level.

The second period was chara tenned by a striking refractory state or remission which usually developed when the peak of ony gen consumption had been reached. This phenomeron was certainly not due to a progressive decrease in potency of the ext act be cause previously uniterated guines a ps responded to the extract characteristically. During the remission the basin metabolic rate returned to normal with varying degrees of rapidity reaching its original value within from one to three weeks.

When the remission was fully e table shed the basal metabols an showed a slight transient increase or fell below its normal level. Such a discrease saggests that prolonged stimulation may lead to sinjute ment of the normal functional level of the thyro d

gland with the development of hypothyr if sm.
The third period was characterized by a recrudes
cence of the di tu barce in oxygen consumpt in with
another cirvation of the basis metabolic rate.

During the first twenty-four to forty-eight hours the cells of the acm in the center of the gland were hypertrophied (cuboidal) and the vascularity of the gland increased appreciably The normal colloid of the central acini began to lose its firmness and its tendency to stain deeply It became rather fluid and partially disappeared from the acinus changes may account for its "vacuolization" after fixation and staining Cellular hyperplasia occurred coincidentally with hypertrophy and could be detected by counting not only the mitoses but also the increased number of cells around an acinus Groups of closely packed interacinar epithelial cells which appeared to be "budding" from hyperplastic acini were also prominent, and there was a significant increase in the number of acini to a high-power field coincident with an absolute decrease in their diame-When the stimulation was continued these changes spread further toward the periphery of the gland The advanced hypertrophy and hyperplasia finally resulted in irregularly shaped acini with lumina partially or totally obliterated by invaginations of the lining epithelium Just before this stage was reached, the vascularity of the gland was at its maxi-

The individual hypertrophic cells presented many minute vacuoles scattered throughout their cytoplasm, and their inner apices were filled with closely packed fine granules

The rapidity with which all of these morphological changes appeared and the intensity with which they developed seemed to run somewhat parallel with the quantity of extract administered daily

During the first week or ten days there was a definite correlation between the progressive changes in the histopathological structure of the thyroid gland and the increasing basal metabolic rate

Eventually, in spite of the uninterrupted administration of the extract of the anterior lobe of the pituitary gland, the thyroid became histologically comparable in most respects to the thyroid of the control animals

Preliminary experiments on several animals in a refractory state offered the opportunity to study the ability of these animals to respond to further injections of extract of the anterior lobe of the pituitary gland after discontinuance of the injections for a varying number of days

These studies indicated that, once an animal has entered upon the refractory period, its thyroid gland may be unable to respond characteristically to further stimulation with the extract

In the weight curves following the administration of extract of the anterior lobe of the pituitary gland individual variations were noted. Some of the animals lost weight quickly as the basal metabolism increased and died without having shown the slightest resistance to the effects of the extract, while others reacted less violently to the injections. As a general rule the initial loss of weight was abrupt, varied between 6 and 27 per cent of the original body weight, and reached its lowest level after from six to twelve

days of treatment There was no constant quantitative correlation between the increasing rate of basal oxygen consumption and the percentage of weight loss. The anorexia of varying degree which the animals obviously developed at the beginning of treatment may have been partially responsible for this discrepancy.

Immediately after the initial weight loss there was a period of recovery during which the weight remained fairly stationary at its new level or returned to its original value or regained a considerable fraction of the latter. Animals surviving for several months tended to regain all of the weight that they lost unless their basal metabolic rate became in-

creased again

Of the thirty animals injected, nine developed exophthalmos and widening of the palpebral fissures due particularly to retraction of the upper eyelid. In several, slight prominence of the eyes occurred toward the tenth day of the experimental period when the most marked hypertrophic and hyperplastic changes were usually developing in the thyroid gland and the basal metabolic was approaching its highest level. The exophthalmos was much more marked when it developed after the animal had entered the refractory period. Striking exophthalmos was seen only in animals which were injected over a period of several months, especially those which finally had an abnormally low basal metabolic rate.

These experiments indicate that the exophthalmos is produced independently of the thyroid secretion which causes the elevation of the basal metabolic rate. They suggest also that extract of the anterior lobe of the pituitary gland is more capable of inducing exophthalmos when the animal is not under the influence of hyperthyroidism but is in a hypothyroid state.

In the first week there was a decrease in activity with a simultaneous diminution of appetite Thereafter, the animals become very excitable

Soon after the basal metabolic rate began to increase the guinea pigs began to shed hair and their normally smooth, glossy fur became shaggy and unkempt. This process which was most marked at the height of the increase in oxygen consumption was probably due to thyrotoxicosis and it receded during the refractory phase.

The cycle of events which extract of the anterior lobe of the pituitary gland stimulates in the thyroid of the guinea pig is remarkably similar to that recorded by Marine and Lenhart and by Wilson for the thyroid in cases of exophthalmic goiter in man

The clinical course of the basal metabolic rate in exophthalmic goiter is also similar to that of the experimental syndrome in guinea pigs. Both conditions are characterized by a progressive intensification of the metabolic disturbance until a peak or crisis is reached, after which there is a period of sustained activity which ultimately subsides spontaneously over a variable length of time

The relation of exophthalmos to postoperative myxœdema in human exophthalmic goiter and to

experimental hypothy roid sin in guinca pigs follow ing thyroidectomy or long continued injections of extract of the anterior lobe of the pituitary gland indicates that the primary cause of expohalimos in e ophthalmic goiter and injections of extract of the anterior lobe of the pituitary gland are both capable of producing exophthalmos independently of the ca longenic hormone of the thyroi d gland

In conclusion the author says that although this study of sclosed a remarkable similarity between exophthalmic goiter in man and the experimental syndrome in animals it is obviously hazardous in the present state of our knowledge to conclude that the pathogeness of the two conditions is identical.

two cond tions is identicated to be a conditional transfer of the condition of the conditio

Torin D I Tub reulo i of the Larynx Arch Otlay g i 934 17 195

Torin states that a laryngological examination sho lid be male in e. er, case of pulm mary tuber culos s as tuberculo is of the larging is a common complication of tuberculosis of the larging is a common successful treatme t of largingeal tuberculosis early diagnosis is accessive. In the majority of cases the diagnosis can be made by indirect largingscopy. In cases of chronic largingth, which does not respond

to the removal of smus infection or rest of the voice a careful search for a pulmonary focus should be made D sease of the larynx superimposed on severe pulmonary tuberculous should be regarded as tuber culous until it is proved to be of some other character. Totherculous of the larynx may heal while rester to the contract of the rest of the larynx may heal while pulmonary tuberculous while tuberculous of the larynx day ances is rare.

Patients with tuberculoss of the lary na are best treated in a sanatonium for tuberculos s where they are under constant supervision and observation learly cases of laryngeal tuberculosis improvement may be brought about by rest alone. In cases in which inflictation and ulceration are present the symptoms and sometimes effect a cure. In ad anced cases in which the patients condition is very grave and the least attempt at swallowing causes excruciating pain in the throat and ears injection of looko into the superior laryngeal nerve is ind state. Surgeal intervention is selfolom advisable as the associated with very extensive laryngeal disease warrants such beroot textiments.

ELLA M SALMONSEY

#### SPINAL CORD AND ITS COVERINGS

Eloesser, L Meningopleural Fistula Following Extirpation of a Ganglioneuroma of the Upper Mediastinum, Ganglioneuroma of the Adrenal Gland Surg Clin North Am., 1933, Viii, 1325

Ganglioneuromata of the upper mediastinum are comparatively rare In cases of tumor of the posterior mediastinum, especially those of globular tumors likely to be ganglioneuromata, the possibility of an hour-glass extension into the spinal canal should be borne in mind Extradural tumors of the cord may also extend into the mediastinum cases of tumor of the posterior mediastinum segmentary disturbances of innervation should be looked for, and in cases of tumor of the dorsal cord lateral as well as anteroposterior roentgenograms of the chest should be made Mediastinal tumors causing cord compression should be attacked first through a laminectomy opening, but preparation should be made for rib resection and opening of the pleura On account of the danger attending leakage of spinal fluid into the pleural cavity, it may be best to operate in two stages, removing the intraspinal portion of the growth first

The author reports a case of spherical tumor of the posterior left mediastinum in a child. The neoplasm was removed by posterior mediastinotomy, during which the pleura was opened. Following the operation a cerebrospinal pleural effusion developed. Siphon drainage of the effusion was followed by meningitis. Finally the drainage stopped spontaneously and the child recovered completely.

Sympatheticoblastomata arising from the adrenals constitute a considerable percentage of malignant neoplasms occurring in early childhood and Three types are distinguished (1) neuroblastomata, with the least differentiation from the primitive neuroblastic cell, which are malignant metastasizing growths usually occurring in infancy, (2) ganglioneuromata, which contain differentiated ganglion cells and irregular strands of nerve fibrils and, often attain a considerable size without tending to metastasize, and (3) paragangliomata, small pigmented chromaffin non-malignant nodules in the adrenal Non-malignant adrenal ganglioneuromata develop retroperatoneally and displace the viscera anteriorly They are well encapsulated and rather firm, and have the characteristic pearly luster of a neuromatous growth On account of their intimate connection with the great vessels, they may be difficult to remove The author reports a case of adrenal ganglioneuroma David J IMPASTATO, M D

#### PERIPHERAL NERVES

Zotterman, Y Studies in the Peripheral Nervous Mechanism of Pain Acta med Scand, 1933, lvxx, 185

This article deals with the peripheral mechanism mediating painful sensation. The author's experiments extended from 1927 to 1933. During the first

two years the apparatus was not sufficiently sensitive to show the action potentials caused by burning pain produced by heat, water, or light applied to the cat's paw or to the frog This result, obtained without mechanical deformation of the skin, did not confirm the work reported by Adrian in 1927 in which the effect of the noxious stimulus (needle) was possibly complicated by the other cutaneous effects In 1032 the author verified Adrian's finding (1931) that acetic acid applied to the skin of the frog produces small action potentials with a velocity of 181/2 m p s Other noxious stimuli caused smaller potentials with a velocity of 51/2 m p s It was found also that heat gave the same effect, that is, small action potentials of slow rates However, these findings were not obtained in mammals, and the conclusion was drawn that, if present in mammals, they must be too small for present-day methods of recording

Pressure-cuff experiments on the human arm were conducted to investigate the sensation of tingling which the author associated with prick-sensation

In 9 subjects cuff-compression of from four to seven minutes was required to produce tingling. The tingling always started in from one half to one and one-half minutes after release of the compression. As the period of compression was prolonged, the tingling began earlier following release of the compression and lasted longer. It was always strongest distally and spread centripetally, thus following the progression of the loss of sensibility.

Cutaneous stimulation with hairs and an algesimeter during cuff-compression showed that after twenty minutes of compression a hair stimulus ten times that required normally (before compression) was necessary for stimulation. A pricking sensation was associated with this greater stimulation. In the uncompressed arm it was obtained faintly, along with the sensation of touch and pressure. This painful sensation was delayed, and the delay was equal in the compressed and uncompressed arm. The algesic threshold remained constant or slightly lowered (from 10 to 20 per cent) with compression. Touch and pressure fibers were not all blocked by compression at the same time, anæsthesia was progressive and differential

The delay in response to pricking (weighted needle) under cuff compression was investigated. The reaction time was shown to be delayed after about twenty minutes of compression. Two or three minutes more of continued compression caused further delay, and longer compression quickly obliterated the prick sensation.

The observation of Lewis, Pickering, and Rothschild that the higher the cuff on the arm the quicker the anæsthesia was confirmed. It was found also that local pressure over a nerve which did not affect the blood supply to the arm produced the same type of paresis and anæsthesia which was progressive centripetally.

Experiments carried out in 1929 showed that the distal portion of the nerve is more resistant to lack of oxygen than the more proximal portion

operation Spontaneous cerebrospinal rhinorrhoa operation spontaneous cereorospanar imooreneas may be due to a tumor of the brain and internal may occur without a demonstrable

suse Increased intracranial pressure is apparently a Decessary Decimonary Pressure is apparently a shinortheat The finnerhold must be Spontaneous and the Advances of the Advances an attempt on the part of the body to effect decom an accompt on one part of the none to enect occount pression. A study of a small series of autopsy reports Pressure A status of a sense series of autoportepores related three routes followed by the fluid (1) from the floor of the anterior form of the widely dilated the noor or the aniethor north of the winery more of the nose (3) from the basal subarachnoid castern through nose (4) tom the massi substitutional district through the embilion plate into the nose and (3) from a the entotional plate into the under and all through the

The quantity of fluid lost in twenty four hours has heen estimated at from 30 to 1 500 ccm. The fluid is clear and matery and neither stains nor stiffens the Is creat and watery and neutron stoms and stome handkerchief. The diagnosis should be made by laporator, examination of the d scharge or by in decing a dye into the spinal canal and watching for its appearance in the d scharge. The dripping from the nose may be constant at first and become inter metent later Sometimes it may cease for weeks thereby suggesting that a localized ascending in fammation has closed the fatula with evidate When the pressure behind has become sufficiently great to break donn the obstruction the flow starts again The successive obstructing and freeing of the com and successive observating and treating in the coin manufaction may continue for years. The danger associated with cerebrospinal rhiporthesa is menin

In the treatment cases with increased intracranial in the treatment cases but metrasco intractance in which no pathological intracramal condition is present. In the parency of the cause of the inc cased intractants present as one pressure should be removed. In the latter an extraction of the case of th pressure sawara ne removed an inc matter an at tempt to close the opening may be made. The head may be placed in a position that will pretent a con may be piaced in a position that any prevent a continuous flow. The massi cavity should be in a Annous now the name cavity sooms or in a horizontal position and the patient in the prone notionial position one the patient in the promotion. This method aids in the spontaneous repair of the fistula. In some cases the use of sodium Part of the useful an some tasks the use of solutions and potassium todide has been beneficial. In others the application of a oper cent solution of silver the appropriate of a per tent solution of surers found of talle A transfortial flap operation with toung of the cristiform plate with todate packs to Package of the criminal place with some packs of stimulate scar formation has been successful Ja some cases good results have been obtained by some cuses good results have been obtained by the cribillorm plate and longuening the trains of the enterthorn place and covering this area with a flap of muscle and fascia. coter ns this area a th a map of nuscice and master from the temporal and after cutting the olfactory. from the temporar go a site cutous are observed, morte and crushing the t mination of the built on

D w H R Some Clinical Syndromes of the F th

The author reviews the literature and reports five The author feviews the interactive and reports of cases selected from a larger series of involvement of the fifth cramal nerve trunk ganglion or its branch s by a neoprasor.

He states that the ganglion or its main roots may

he payofed by primary or secondary neoplarns of I Tumors derived from the ganglionic tissues A tumory control norther the gaugeonic cosmol neurofibromata gangi oncuromata endotheliomata

Tumors densed from the meninges of the base of the brain or from the brain meningionata

Tumors in the cerebellopontine angle neuro fibromata meningiomata 4 Tumors of the maxillary antrum circinomata

Tumors of the managery antique carcinomata the nasophaty nx involving the cramal base by direct extension from below about sarcomata carcinomata lymphosarcomata

Metastatic tumors carcinomata sarcomata the clinical aspects of these lesions as they relate the cumum aspects or these resions as they remove the fifth nerve are discussed in detail. In the to the fifth perve are cuscussed in uccase 40 surfaces opinion it is the peculiar combination of server constant pain with sensory loss or anesthesia severe constant pain with sensory loss of anastrees, over the same area which distinguishes the cond tions discussed from the classical ingerman neural Recause of the frequency of mistakes in th dagnosis he orges closer cooperation between the chaguous ne orges thoser cooperation between physician the neutrologist and the thinologist

Heilmann K Regeneration of the Intert and Superit Alreadar Nerres Afte Op til and I not to the Intert and I not to the I not to the Intert and I not to the I not to the Intert and I not to the I not the I not to the I not the I not

Section or destruction of the inferior and superior

alveolar nerves as done intentionally for the relief averages as done intentionally for the removal of neuralges and unintentionally in the removal of or normalists and terminationally at the returner traction of the roots of molar or wisdom technical traction of the roots of molar or wisdom technical tractions. The nerves may be destroyed also by fracture Aute herves may be destroyed also by fractions of the constraints actions costs likes Cysts and to ostcomycus attraonay coats rues costs and to mors. Neutalfix or paralysis follor s depending on mors Aveuraiga or paraivais Iouo, a depending on the deg ce of damage. The results are unpleasant the deg ee of damage. The results are unpleasant sensations in the anaesthetic area of the gum. The action one in the adaptitude area of the gain and author denies that death of the pulp if the in volved tooth occurs There is desensit alton not devitalization Even trophic changes do not take place On the other hand toothache as a warning of beginning cames does not occur

The author studied the regeneration of these nerves in fourteen cases Two nere cases of tumor of the upper jaw three cases of 3 st of the upper or the upper jaw since cases or class or the upper jaw and the rest cases in which the Caldwell Luce and and the Deaker ope aton had been done He concluded that regeneration occurs in all cases in which no scar t sale prevents restoration of the in which ho scar resue prevents restorated or the continuity of the nerve. The period of regeneration of the gum ranges from six to twelve weeks. The

or the gum ranges from six to twelve weeks. The return of sensibility of the dental nerves is first months. Complete return of sensibility or or five nerved of weeks. F HAERTEL (Z)

## SPINAL CORD AND ITS COVERINGS

besser, L. Meningopleural Fistula Following Extirpation of a Ganglioneuroma of the Upper Mediastinum, Ganglioneuroma of the Adrenal Gland Surg Clin Verth Am., 1933, Nm., 1325

Ganglioneuromata of the upper mediastinum are imparatively rare. In cases of tumor of the posnor mediastinum, especially those of globular mors likely to be ganglioneuromata, the possibility an hour-glass extension into the spinal canal hould be borne in mind Extradural tumors of the ord may also extend into the mediastinum ises of tumor of the posterior mediastinum segentary disturbances of innervation should be oked for, and in cases of tumor of the dorsal cord teral as well as anteroposterior rountgenograms of Mediastinal tumors ie chest should be mide iusing cord compression should be attacked first irough a laminectomy opening, but preparation rould be made for rib resection and opening of the leura. On account of the danger attending leakage spinal fluid into the pleural cavity, it may be best operate in two stages, removing the intraspinal ortion of the grov th first

The author reports a case of spherical tumor of the posterior left mediastinum in a child. The coplesm was removed by posterior mediastinotomy, uring which the pleura was opened. I ollowing the peration a cerebrospinal pleural effusion developed uphon drainage of the effusion was followed by teningitis. I inally the drainage stopped spontacously and the child recovered completely.

Sympatheticoblastomata arising from the adreals constitute a considerable percentage of maligant neoplasms occurring in early childhood and ifancy Three types are distinguished (1) neuro-Instomata, with the least differentiation from the rimitive neuroblastic cell, which are malignant netastasizing growths usually occurring in infancy, 2) ganglioneuromata, which contain differentiated anglion cells and irregular strands of nerve fibrils nd, often attain a considerable size without tending o metastasize, and (3) paragangliomata, small pignented chromaffin non-malignant nodules in the drenal Non-malignant adrenal ganglioneuromata levelop retropentoneally and displace the viscera interiorly They are well encapsulated and rather irm, and have the characteristic pearly luster of a seuromatous growth. On account of their intimate connection with the great vessels, they may be difficult to remove. The author reports a case of idrenal ganglioneuroma David J Lupastito, M D

#### PERIPHERAL NERVES

Zotterman, Y Studies in the Peripheral Nervous Mechanism of Pain Acta med Scand , 1933, lxxx, 185

This article deals with the peripheral mechanism mediating painful sensation. The author's experiments extended from 1927 to 1933. During the first

two years the apparatus was not sufficiently sensitive to show the action potentials caused by burning pain produced by heat, water, or light applied to the cat's paw or to the frog This result, obtained without mechanical deformation of the skin, did not confirm the work reported by Adrian in 1927 in which the effect of the noxious stimulus (needle) was possibly complicated by the other cutaneous effects. In 1032 the author verified Adrian's finding (1031) that acetic acid applied to the skin of the frog produces small action potentials with a velocity of 1812 m p s Other noxious stimuli caused smaller potentials with a velocity of 51 mps. It was found also that heat gave the same effect, that is, smill action potentials of slow rates. However, these findings were not obtained in mammals, and the conclusion was drawn that, if present in mammals, they must be too small for present day methods of recording

Pressure cuff experiments on the human arm were conducted to investigate the sensation of tingling which the author associated with prick-sensition

In a subjects cuff-compression of from four to seven minutes was required to produce tingling. The tingling always started in from one-half to one and one-half minutes after release of the compression as the period of compression vas prolonged, the tingling began earlier following release of the compression and listed longer. It was always strongest distally and spread centripetally, thus following the progression of the loss of sensibility.

Cutaneous stimulation with hairs and an algesimeter during cuff compression showed that after twenty minutes of compression a hair stimulus ten times that required normally (before compression) was necessary for stimulation. A pricking sensation was associated with this greater stimulation. In the uncompressed arm it was obtained faintly, along with the sensation of touch and pressure. This pain ful sensation was delayed, and the delay was equal in the compressed and uncompressed arm. The algesic threshold remained constant or slightly lowered (from 10 to 20 per cent) with compression. Touch and pressure fibers were not all blocked by compression at the same time, anæsthesia was progressive and differential.

The delay in response to pricking (weighted needle) under cuff compression was investigated. The reaction time was shown to be delayed after about twenty minutes of compression. Two or three minutes more of continued compression caused further delay, and longer compression quickly obliterated the prick sensation.

The observation of Lewis, Pickering, and Rothschild that the higher the cuff on the arm the quicker the anæsthesia was confirmed. It was found also that local pressure over a nerve which did not affect the blood supply to the arm produced the same type of paresis and anæsthesia which was progressive centripetally.

Experiments curried out in 1929 showed that the distal portion of the nerve is more resistant to lack of oxygen than the more proximal portion

From the fulnes of these studies and those of stud es carried out by others which he reviews the author concludes that conduction bl ck as a result of this type of compression is probably due to several factors (1) anoxemia (2) def rination of the nerve by the cuff (3) the accumulation of scid metabol tes and (4) injury of nerve membranes with consequent changes of permeability depolarization and loss of conduction Loss of circulation to a given stretch of nerve is considered the most important factor in this type of conduction block

I'wo cuff experiments on the same arm demon strated that the tingling is produced in the nerve trunk directly under the cuff and that the release of bloo I to tle compre sed area plays an important part in the sensation of tingling this sensation start

ing after the conduction is restored

As a result of his studies and the e of other in vestigators the author believes that tingling orre so inds to an activity of the Thunberg prick nerves that is to a low frequency of impulses in superi cially ending fibers and correlates with the slovly conducting fibers discovered by Adrian in mammal an nerves possessing end organs with a slightly higher threshold f r mechanical stimuli than the larger touch fibers

He concludes that nocicentive reactions are in duced ir in the skin by the activity of special nerve f bers of slover con fuction rates than the touch and pressure fibers-conduction rates corresponding to i rlange and (as ers C class fbers and that

therefore the evidence produced by Foerster dem onstrating that sympathetic afferent fibers are concerned in pain reactions is strengthened O W JONES IR W.D.

Buth H S Diagnostic Prognostic and Thera peutic ber e Block J Im M At 1914 1 4th

I ollowing a review of the I terature on nerve blocks the author reports his experience with thera neutic peripheral nerve block covering a period of two years. He states that the patient should be warned of the various sequelæ which follow the in jection of alcohol into nerve trunks. The injection should be made without the induct in of general anasthesia as the parasthesias during the injection are important for accurate local zation. A few d ons of alcohol properly placed give better results than several cub's centimeters injected into the surround ing tissues. The inject on should not be repeated until several days have clapsed as the maximum effect of the first injection is often del sed

The author discusses the various conditions in which perve injections are done the info mat on that has been gained regarding pain pathways and the therapeutic effects of section of the sympa thetics He concludes that the inject on of procain and alcohol into nerve tissue is not only an alternati e method but also a more or less efficacious method of disrupting nerve impulses with possibly a greater fel i of applicat on than perve section

LOBERT ZOLLI ER M D

## SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Iribarne, J, and Ortiz, N C Primary Tuberculosis of the Breast (Tuberculosis primitiva del seno) Bol Soc de obst v ginec de Buenos Aires, 1933, xu, 822

The authors report three cases of primary tuberculosis of the female breast. The patients were sixteen, twenty-four, and eighteen years of age. Only the twenty-four-year-old patient was married and had borne children. The fact that one of her children died while it was nursing indicated that the patient probably had tuberculosis of the breast at that time although it did not become manifest until later, after an injury. In the case of the girl sixteen years of age the tuberculosis was probably initiated by trauma and a year later was re activated by it in none of the cases could any extra-mammary focus of tuberculosis be found.

The best treatment is simple and economical excision of the involved tissue if the lesion is circumscribed and surgical removal of the whole breast if the lesion is diffuse. The pectoral muscles and the aponeurosis should not be resected, and the avillary glands should not be cleaned out unless they are markedly diseased. Resection is best done with the radiobistoury, which closes the blood vessels and lymphatics. This form of surgical treatment results in complete cure. It was used in the second and third of the authors' cases. In the first case, which was treated with the roentgen rays and the Kromayer lamp, there were several recurrences. Recurrences developed also in the second case until surgical treatment was given.

Audres Goss Morgan, M D

#### Quick, D Radiation in Primary Operable Breast Cancer J Am M 125, 1933, c1, 2091

The author discusses the treatment of cancer of the breast by irradiation alone and irradiation combined with surgery

Irradiation is used most frequently after operation. The author believes that operation with postoperative irradiation is followed more frequently by freedom from evidence of the disease at the end of a period of five years than treatment by operation alone.

He states that in primary operable cancer of the breast, pre operative irradiation with X-rays of maximum intensity offers more than any other type of irradiation. While destruction of all of the malignant cells is not expected, many of the cells are completely destroyed. The chief effect is inhibition of the growth of the tumor and regressive and degenrative changes in the tumor bed and cells. Preferably, the irradiation should precede the operation by

six or eight weeks. The avillary fibrosis resulting from the irradiation renders avillary dissection slightly more difficult, but healing is not impaired. All patients given pre-operative irradiation should also receive postoperative irradiation.

When cancer of the breast once becomes inoperable it remains inoperable. As a rule the more spectacular the regression of the tumor under irradiation, the greater its malignancy and the greater

the danger in surgical approach

In the author's opinion there is no convincing evidence that the combination of irradiation of the ovaries with pre-operative and postoperative irradia-

tion of the breast is of any practical value

While the use of irradiation alone may at times be justifiable or even the best form of treatment in certain cases of primary operable cancer of the breast, such as those of patients unable to stand operation and those of very young patients, in which surgery gives uniformly poor results, it cannot yet be regarded as the method of choice in the majority of cases. In general, the results obtained in cancer of the breast have been markedly improved by radical operation preceded and followed by irradiation.

Earl O Latingre, M D

#### TRACHEA, LUNGS, AND PLEURA

#### Moore, J A Intrapleural Pneumolysis J Thoracic Surg., 1934, 111, 276

Moore regards the thoracoscope of Unverricht as the best instrument for the operation of closed intrapleural pneumolysis, and the electrosurgical method as superior to the cautery method. He believes that Mauerer's technique of dividing an adhesion at its parietal insertion should increase the indications for the operation and greatly reduce the incidence of empyema

A study of the reported results of the closed method indicates that it is of value as an adjunct to the artificial pneumothorax treatment of pulmonary tuberculosis and is safer and more effective than the open method

ELIZABETH M CRASSION

Sergent, E, and Iselin, M Abscess of the Lung with Pleural Effusion J Thoracic Surg, 1933, 111, 109

The authors emphasize the gravity of pleural effusion in cases of lung abscess. Three types are described (1) pleural phlegmon due to the direct rupture of an abscess into a free pleural space, (2) encapsulated effusion due to direct rupture or the spread of a distant infection in the presence of adhesions, and (3) diffuse pleural effusion due to extension of a suppurative process in the lung. The last two types are discussed in detail. In the en-

capsulated type which is a slowly developing proc ess the presence of air suggests the rupture of an abscess into the pleural space and the pus shows

organisms similar to those in the sputum
When the empyema masks the signs of abscess the diagnosis is difficult. However following drainage of the empyema the symptoms may suggest an abscess and the site of the abscess may sometimes be revealed by a roentgenogram Indized oil may he of aid in the localization

The best results are obtained by treatment in cases of encapsulated abscess. In some cases drain age of the emprema results in cure. When the symptoms persist aspiration may reveal the pocket Dramage into the thoracotomy wound then leads

to cure

When in cases of the third type of effusion the abscess is recognized and localized a large thora cotomy is advisable and drainage of both the pleural space and the abscess may be accomplished in one stage. However, this procedure is not applicable to many patients

When the abscess is not localized the empyema should be drained and exploration for the abscess should be done later Failure of improvement to occur after dramage suggests multiple pockets re

quiring localization and drainage WILLARD VAN HAZEL, M D

rholt R II Th Treatment of Pulmon ry Ab cess by Pe inheral Lung Fixati n and O erholt R II Regional II oracoplasty J Thorac c S g 033 34

The author recommend obliteration of the cauty of a pulmonary abscess by peripheral f vation of the lung and regional thoracoplasty The procedure is performed in three stages In the first stage the ribs a e exposed by the formation of a large flap and the region of the lung to be collapsed is marked off by inserting gauze saturated with iodi e beneath the uppermost and lowermost rib of the area and be neath the periosteum of a segment of the inter ening ribs at the periphery. The wound is then closed In the second stage which is performed from ten to fourteen days later exposure is obtained a in the first stage and the periosteum is stripped f om all of the r bs with n the area marked off in the first stage This allows the pleura to fall from the ribs The space bety een the ribs and the pleu a is then packed with vasel ned gauze. The ribs are pre-served for counterpress re. In the third stage which is performed after an the interval of from ten t fourteen days the ribs within the area of collap e are resected the gau packs are removed the wound is closed and a compress on dre sing is amplied

From experiments on dogs the author concluded that in the use of this proced re the desired a ea or lobe is collap ed mo e effect vely than by other methods and there is less inte ference with the other labes than when collap eas produced without per ph eral fixation of the lung. He believes that I cases of lower lobe abscess phren co excress is more effective when it is preceded by pempheral fixation because the lung is prevented from shifting its po-

Three clinical cases with a favorable prognosis are reported C G SHEARON M D

P roni A Inflammatory Tumors of the Bronchl. Experiment 1 nd Pathological Consideration Arch Olol ry e l 1934 xix

Unsuccessful attempts were made to reprod ce experimentally the benien bronchial tumors of in flammatory origin described by the Jacksons These tumors are not true blastomata but their histological structure is similar to that of certain other hyper plastic processes supposedly of inflammatory organ such as polyps of the nose and larvny. They are easily differentiated from the common granulation seen in the bronchi in cases of long standing foreign bodies for they are tumors of a permanent character and are subenithebal

These tumors do not seem to be produced by the irritating action of the bus coming fr in suppurative proce ses of the bronchi By obstructing the bronchus they tend to cause bronchiectasis and suppurati e of chronic inflammatory tissue coming from carnifica tion processes of the lung into the bronchial lumen As a rule there is a history of frequent attacks of influenzal bronchopneumonia with an atypi al course. In the present state of our knowledge these tumors appear to be classified most satisfactorily as inflammatory polyps of the bronchi GEO GE A COLLETT M D

Spasokukockij and Vinograd Finkel The Patho gene is of Acute Empyema (Zr Frage d lath ge e ak t eith Pleu tid ) hor ch lath ge e ak t eitn Ar h 933 XX 11 360

D ssatisfed with the empirical method in the treatment of acute empy ema the authors undertook the task of studying the pathogenesis of the disea e in their own material (more than 100 cases operated on in the last two years) in order thereby to arm eat a more satisfactory man gement. From their find ings they came to the conclusion that acute em pyema is usually a secondary rather than a primary disease The primary form is uncommon Among their own cas's the authors were able to find only 2 of the p imary type-one in which the infect on entered the pleural cavity d rectly f om a gunshot wound of the chest and the other i om a perio 'no of the esophagus. Ne rly all of the patients we e referred to the authors with the di gnosis empyema without involvement of other gans In only 7 was the empyema c mplicated by some other cond tion such as neoplasm gangrene of the l ng or bro chi ectasis At autopsy n 17 c ses pulmonary sup p ation was found definitely n ca es and could n t be posts ly cluded n s

In the cases f the p te ts who recovered or sur ved there we e 1 1 al symptoms suggesting the presence of suppuration of the lungs The authors divide these cases into 2 groups—those with positive evidence of lung suppuration and those with less certain evidence of that condition In the first group were the cases with roentgenologically demonstrated lung abscesses, spontaneous pneumothora, the clinical picture of rupture of a lung abscess into the pleural cavity, and the expectoration of gangrenous lung tissue. In the second group were cases with copious expectoration which stopped after the formation of the empy ema I he diagnosis of lung abscess associated with acute empyema is based on the following criteria

The findings of roentgen examination (thoracoscopy and thoracography) immediately after

thoracentesis

2 The findings of repeated thoracoscopic examinations soon after the operation

3 The findings of microscopic examination of the sputum for elastic fibers and blood

4 The expectoration once or continuously of

large amounts of pus

5 Evidence of bronchopleuropulmonary fistula during the postoperative course after drainage of the empy ema

6 Metastatic infection of organs at a distance (thrombophlebitis of the pulmonary veins following pulmonary suppuration, and infected emboli arising therefrom

The authors are of the opinion that encapsulated empyema may likewise have its origin in pulmonary suppuration The onset and fate of serous effusion also seem to support their theory that acute empyema has its origin in pulmonary suppuration trary to the general belief, the serous exudate is often infected, sometimes containing even streptococci Later it becomes absorbed or changed to a seropurulent or frankly purulent exudate. This result depends, not on secondary infection (possibly from aspiration), but on the primary presence of a focus of suppuration in the parenchyma of the lung, pleural irritation, and subsequent infection of the effusion by extension Consequently, empyema is not a primary, but a secondary disease, usually metapneumonic, depending on suppuration in the

The treatment depends on the type of the plcurisy—whether it is serous, seropurulent, purulent, encapsulated, or associated with pneumothoraxand must be correlated with the degree and charac-

ter of the process in the lung

Experience shows that early pleurotomy, even a closed one, is of no value in the first days of the formation of a purulent exudate, when the lung is still involved by an acute suppurative process, on the

contrary it may even be detrimental

Several careful aspirations of the pus—so called decompression punctures—are of great value, improving the expansion of the lung, favoring obliteration of the cavities from which the pus is removed, and preventing the development of chronic empvema and residual cavities G ALIPOV (Z)

#### HEART AND PERICARDIUM

Ramsdell, E. G. Stab Wounds of the Heart Ann Surg , 1034, ACIA, 141

The author reports a case of stab wound of the right ventricle which was operated upon successfully The patient, a negro forty-one years of age, received a knife wound in the left fifth interspace about 2 cm to the inner side of the nipple Operation was performed under general anæsthesia about one and a half hours after the injury From the stab wound an incision was made upward along the sternal margin and downward obliquely along the eighth rib The left pleural cavity was found open and partially filled with blood. The pericardium was exposed by dividing the fourth, fifth, sixth, and seventh costal cartilages

On the upper anterior surface of the pericardium a wound about 2 cm long was found. When the pericardial sac was opened, a freely bleeding wound of the right ventricle was seen. This was closed with two interrupted sutures of silk. After evacuation of the clots the pericardium was closed with interrupted widely spaced chromic sutures. The chest wall was closed in layers with drainage

Heart action became regular in a few hours. After an uneventful convalescence the patient was discharged on the nineteenth postoperative day. Tive and a half months after the injury the only abnormality noted on electrocardiography was an inverted I wave in Leads 1 and 2, indicating "disease of the ventricular muscle "

The author emphasizes that the possibility of injury to the heart should be considered in all cases of penetrating wounds of the chest, and that the formation of a chondroplastic flap through an inter-

costal incision is the easiest approach

To date, 427 cases of wounds of the heart have been reported Forty-nine were collected by the author since Schoenfeld's report in 1927 hundred and thirty-three of the patients recovered, and 105 (45 56 per cent) died. Among the 50 cases tabulated by the author there were 19 of wounds of the left ventricle with recovery in 10, 12 of wounds of the right ventricle with recovery in 10, 3 of wounds of the left auricle with recovery in 1, 2 of wounds of the right auricle with recovery in 1, and 14 of miscellaneous wounds of the heart with recovery in The mortality in the 50 cases was 34 per cent

The article has an extensive hibliography ARTHUP S W TOUROFF, M D

#### Burke, E M Metastatic Tumors of the Heart Am J Cancer, 1934, 17, 33

The author reports 14 cases of metastatic tumor of the heart which were found at autopsy among 327 known cases of malignancy The 14 cases included 1 each of carcinoma of the ovary, Hodgkin's disease epithelioma of the œsophagus, lymphosarcoma of the neck, epithelioma of the tongue, endothelioma of the pelvis melanoma of the wrist, epithelioma of the laryny, lymphosarcoma of the bowel, embryonal fumor of the kidney epithelioms of the labia and 1\TER\4TIO\AL ABSTRACT OF SURGERI tamor of the back and 3 of carcaoma of the

metanoma of the back and x of careatoma of the breast. The subjects ranged in a 6 from trefve to oreast the supjects ranged in the free males the deg ee of involvement of the heart muscle and from minute implants to replacement of a varied from minute imposits to replacement of a considerate portion of the near muscle by tumor tissue. The heart values were not involved in any assue the neart varies were not involved in any of the cases. In the majority, the left side of the

of the clases. In the majority the feet side of the heart was more incolved than the right side. In Acast was more involved than the ugus side an inc. near side and it. The author suggests that the implantation of tumor cells in the heart may occur (1) as the result of initiation of the blood vessels of the lungs by

of int 3500 of the blood vesses of the lungs by mptate. metastane growins (2) by war or the component duct and the superior year cava through the bron chial and as 160s veins or (3) by retrograde ronduc constant and so so your or Droy recognistic comments on the lamphatic channels. In 13 of the 14 cases reported there were metastases in the lungs

Plersof M H Griffith G C O Hara F J and Lee W E The Operation of Cardiolysis in Advantage Properties with Pick a Nondome Lee W E the Operation of Cardiovers in Adhesive Pericarditis with Pick a Syndrome

Surgical intervention to cute adhesive pericarditis Suggested by Well in 1895 Deforme in has use sufficiency by their in tons presonance to propose decortication of the heart. This operation was first performed by Sauer bruch in 1913. In 1902 Braner proposed a much orace in 1013 4n 1902 Drauer proposed a much sampler procedure namely excuson of this and Military processes over the precording Tals opera toosat carriages over the precultum Ans opera tion was successionly remoment by a section in a specific authors before that as a rule the DeLorme tather than the Braner procedure is indicated

rather than the strater procedure is indicated. One great danger as suggery of the percuriaum is the possibility of injuring the pleur. The trivial and a state of state described in tensor but to complete in the state of the procedure is the state of the procedure in the state of the procedure is the state of the procedure in the state of the procedure is the state of the procedure in the state of the procedure is not the procedure in the state of the procedure is not procedure. angle of safety first described by vocatich in 1897 angue of safety area meachined by vocacion in 1997 is a small area uncovered by pleuta in front of the as a small area uncovered by pieuca in itoni of the pencardorm and beneath the sternam. This area is extremely variable in size and location extremely variant in size and tocation mentioned two other dancers associated with opera mentioned two other dancers associated with operations on the heart (1) the danger from firm addle sons to the chest wall and neighboring tissues and sions to the chest was and neighboring through and the danger of rekinding local inflammatory processes by mechanical interference

Processes by mechanical intervence

The transfernal approach is comparate ely easy
but does not give sufficient from the Splitting of
the Association has been processed but for substitute of out toos not give superior error are apputing of the sterning has been proposed but is a shocking ine sterania nas bren proposed bue is a biocam, procedure. Shipley has devised a combined trans Procedure Supply has deviced a communication sternal and chould supplied approach which is con-Metitat and Choice Despinous approach which a consider the method of choice By the method the un success one mechanism of the period days and left margin covered portion of the pericaround and seic margin of the plears, are exposed. The left plears can then

of the pleura are exposed. In each pieura can income be reflected laterally and the percardium opened. It is important to attempt to differentiate construction of the property of the construction of the con streethe mediastinopenescritis (Pick's disease) from seneure memasunopericatous (views usease) inc.
polyserosits. In the former the fundamental diff. possessions an one former the communication on colly is percentual and the pleural effection ascites and hebatic enforcement are secondary to circular and nepatic emargement are accoming to circums the percardial dis

ease is part of a process which causes also chronic ease is part or a process waren causes also chrome the partition as the result of a lon grade chrome in perm patturs as the result of a non-grade curonic in flammatory reaction of the pentoneum about the nanmatory reaction to the periodicina about the daphragm which gradually layouses the pencardium and pleura: The two conditions are similar and per haps at times indistinguishable but from the stard boint of such continuent an attempt at queen point or surfaceat treatment an artempt at covered tastion should be made. Since in Pick 5 disease the Symptoms are due to primary pericardial insolve symptoms are one to primary pericardial insolve ment cardiolysis would seem to offer more lope of ment carmonysis would been to outer more wope of relief in this condition than in polyserositis in which

rettet in ins condition than in polyserosus in which the chronic inflammatory pro ess continues even when decompress on of the least than bein performed. nen decompress un orthe neurt has neen personnen The authors report two cases in great detail The first was that of a man twenty five ears of age who was suffering from a constrictive medias (inopenea di was suffering from a constitutive memoratinoperica di its which apparently was due to a biateral paeumona as water apparently was due to a district pneumona occurring seven years previously. The diagnosis was occurring seven years previously the magnosis as based on the following findings (t) venous engage pased on the tonowing undings (i) tenous engage ment and dependent addense vith hepatic and spicole ment and dependent (coopie & ith nepart and spicoid entargement (2) sugar caronac entargement with a caronac entargement with the physical (addings (3) a lowered attent) (ca negative pur situa i manga di y a noverro a i eta i va son (4) a history of bilateral poeumonia and (5)

sion (4) & history of bilateral pocusional and 155 increased venous pressure. At operating the feest was freed and a section of P feerfulum measuring and a section of P feerfulum measuring the feest was a section of P feerfulum measuring the section of P feerfulum measurements. has cieta and a section of p treatment measuring about 6 by 3 5 cm was removed. Although the acoust v vy 3 5 cm was convert acrosses for selected pressure tore and the versus pressure fell demonstrating that the operation had been effective

In the se and case that of a boy of thirteen years the diagnosis was confirmed by A ray examination the magnoss v as commence of any communication which demonstrated calculations of the perioardism that the nearly perioardism the nearly perioardism that the nearly perioardism the nearly perioardism that the nearly period to the nea Operation was performed in the states because during the procedure the patients condition became cultural Followers was not seen that the state of states and states are states as the states of the arternal seen conditions and space of the states of of th pressures became normal the liver and spleas receded and the ordens of the tiver and spleas appeared

Armong c in extremities dis

#### ARTHUR S II TOUROFF M D CESOPHAGUS AND MEDIASTINUM Gonzal z A A

nzal z A A D latation of the Csophagus Sisa Cardiospa m (h) Dhagu Laucion of in Usophagus mega of Cardiospa m (Director di

This article is limited to the diffuse dilatation of the ecophagus which in some instances is no turbances of the sympathetic nervous system Essential diffuse dilatation with true enlargement due to dismegoesophagus mesticosponeus in some instantes it so a manifestation of the functional inferiority associated with visceroptosis in others of visceral grantism. It congenital often remains latent until a secondary cardiorpass

otten temains satern units a securiority entonoposis develops. The author reports the case of a man of thirty five years whose symptoms were precipitated by an esophagitis with resulting cardiospasm on temporalists with resuming tarmosposini Conzalez agrees with Leith and Abell regarding Poeste estatue afternation of the and and reference of a true afternational and and a second a second and a second a second and a second a second and a second a second and a second and a second and a He bases his opinion chiefly on Keith's indings in

the cadaver He states that sympathetic overstimulation of the esophagus would provoke cardiospasm with consequent hypertrophy of the muscle fibers and, in the phase of fatigue, a terminal dilatation The permanent congestion in the submucosa may cause connective tissue formations analogous to hamorrhoids This condition may be the basis of a true organic stenosis. In the latter condition

Heller's cardicesophagoplasty gives good results The author reports five cases of cardiospasm treated by Plummer's method with excellent results He believes that Plummer's method is the procedure of choice for uncomplicated cases. If it is unsuccessful, dilatation with forceps through a gastrostomy opening is permissible

The article contains roentgenograms and anatomical drawings M E Morse, M D

So-Called "Thymic Death" Waldbott, G L The Pathological Process in Thirty-Four Cases 1m I Dis Child, 1034, Alvii, 41

The author examined the records of 122 cases in which status thymolymphaticus was given as the cause of death These records came from the pathologists of 10 hospitals Sixty-eight cases were excluded from the study because the lymphoid hyperplasia was associated with some other condition such as hyperthyroidism, birth trauma, gastro-enteritis, and respiratory infection which might itself have been sufficient to cause death

The 34 remaining cases were those of 6 adults and 28 children Nineteen of the patients were females Most of the patients had been in perfect health up to the time of death and were free from pathological lesions indicating previous disease. The average weight of the thymus gland was 35 2 gm largest thymus weighed 85 gm. In 16 cases minor incidents, ordinarily non-fatal, occurred just before death In 7 cases dyspnæa, stridor, fever, and shock occurred

In all of the cases uniform and characteristic changes consisting of capillary congestion and extravasation of blood cells and ædematous fluid were found in the lungs These lesions alternated with areas of emphysema and atelectasis. In 17 cases petechial humorrhages were found in the heart, pleura, lymph nodes, and other viscera In some dilatation of the right side of the heart, degenerative changes in the liver, and ædema and capillary congestion in other organs were found Hypoplasia of the suprarenal glands and hyperplasia of the lymphoid organs were present

Companson of this pathological process with that found in anaphylactic shock in man shows a close resemblance, if not complete identity, of the two conditions This is suggested also by cosmophilia of the tissues and an allergic family or personal history

From his findings the author concludes that death may be the result of a primary anaphylactic adema of the lungs and ensuing asphysiation. This theory is based on the assumption that anaphylactic shock may occur from the incorporation of non-protein substances in the body, and that absorption of shock-producing antigen may take place by ways other than injection Evidence supporting this assumption is presented J DANIEL WILLEMS, M D

# SURGERY OF THE ABDOMEN

## ABDOMINAL WALL AND PERITONEUM rnett J B Pain and Tendern ss of the Ab Carnett 1 B

Carnett states that pain and tenderness occur far more frequently in the abdominal wall than in the more requestly in the audominar wan than in the abdominal viscera. Lalpation over relaxed abdomination over relaxed abdominations of the control of the cont nal nuscles fails completely to differentiate parietal hat inustes iaus competery to unrecentate paneta-fom visceral tenderness. I artefal tenderness and nucleontally, pain are demonstrated best by making increntianty pain are demonstrated orest by making firm palpation while the patient balloons out the nen paipation while the patient battoons out the abdominal muscles as tense augment and mous the augmented investes as sense
as possible. Any lenderness thereby disclosed is nec as prositive Any senuerness thereby disclosed is necessarily parietal as the tense muscles keep the exthatily particules as the course and the for each and the following into contact with the

iscera His persensitiveness to proking or stroking of the (1) persensitiveness to persons or seconds or the and minal stan with a Din or to the pinch ng of a and minas skin with a past or to the points ug of a liberal fold of skin and fat indicates paintial tender local fold of sum and let district particle tensors.

The author believes that paretal pain and tenderness of the abdomen are usually due to neu railers and are independent of intra abdominal le taigus and use mucpeuvens of initia audominas se s ons. The acute lessons he states are usually due to acute infect ons that do not require operation and d sappear rapidly on subsidence of the toxamia re a soppear rappery on accountance of the cohemic re-sulting from the meetings. In chronic neuraliza the suring atom the intertions of caronic neuralization usual cause is some form of spinal trouble such as usuar tutuse as some form or spanial attitude source of spanial arthroscuppes extrante minost somosis or spinis atantis.

Is Carnett does not regard parietal Pain as the
manifestation of visceral d sease re usual surface manuscranion of visitera of sease to sulfing from the viscerosensory teffex (Markenz e Head Sherren) and does not accept Morley a theory that par etal symptoms are brought about by pentoneocutaneous reflex Cirl

J la ines and Se a in Perit nitie A S ra b P Prit nities R bl C/( A OB W MORA M D

Cisler reviews the literature on the batterology of Congression the mental the variety of the variety of the periodits due to append citizenting the nork of the periodity of the Venuers Valuam Asizensiem Aschon Lour Rassfeld and Haenschen and the valous sera pre National and establishment and the year of the speed and tested by them. On the basis of the types paten and tested by them On the oasts of the types of bacteris found by Aschoff and Lohr Rassfeld and of Dacteria found by Ascholi and Loaf Ressieid and the suggestion of Jiraset a serum has been d at the suggestion of Masea, a serum has been a cloped which has been used a about fifteen cases to cupica water has used used in about interest cases to date. The beneficial effect is manifested by a fall n the temperature slowing and important to the coe temperature suoning and improvement in the quality of the pulse and improvement of the general

The author mentions the various methods of ad In author mentions the various inclusion of an insterning these um. He favors the earliest possible m a stering the second frequency to examine the second intravenous admin strate a of approximately co intravenous some usuau ou approvement of cm, at one time. If necessary the should be repeated on the second the d and possibly the fourth peated on the sections to a and prosently the courts of their rel able methods should not be neglected

The mortal ty in the author's chin chas fallen fr 25 to 15 9 per cent. Hon much of the decrease ca 23 to 15 9 per cent 1108 much of the vectrase call be attributed to the use of the serum is unknown be attributed to the use of the second Parther careful observation is necessary

Salici L Experimental R en he on the sett n ict L Experimental K ea ne on the act of Hypertonic Solutions in Perforation P of August 1987

of Hyperionic Solutions in Perforation P at 15 and 15 and

The author reports experiments carried out on rabbits to determine the relative ments of hyper tonic salt and glucose solutions given intravenously tone, but and gracose sometons given meravenously in perforation perforation. Intestinal perforation in perioration Perioritis and secondary perioritis sacre produced by com and secondary persons a were produced by com-pletely sever ag a loop of small box el through a mid peticity sever ug a 100p of summ power involve a mou ince ancision of the abdomen and then tightly closing the abdomen after satisfactors harmostas 3 had been the anomics after satisfactor, memorias a may occu-obtained. The animals here not anarshed; ed as Outsined the attimate were not anasthesis as it was feared that anasthesis might lead to e rors of it was reaccu that anaestican thigh that we we wis on the rabbits were divided in secon group nere as follows

groups The procedure and the results in each Group I the control group ten rabbits \0 t eatment given Death occurred on an average of eleven hours after the operation

Group z ten rabbits One cubic cent meter of a hyperton c (to per cent) salt solution per kilogram of body weight was injected through the marginal or body weight was injected intough the inaignus ear vein immediately after the operat on Death ear yent immediately after the operation occurs ed on an average of twenty five hours after

Group 3 ten rabbits The same salt solut on in the same concentration and dosage was injected intravenously five hours after the ope atton Death occurred on an average fourteen hours after the op-

at on Group 4 four rabbits The same sait solut on in the same concentration and design was injected ten hours after the ope ation Death occur ed on an nours after the ope arrow beath necessaries of furteen hours after the ope atton

Goup 5 twel e rabbits One cubic centimeter of hypertonic (20 per cent) glucose solution per kilogram of body ne ght was injected intravenou by immed ately after the operation Death occurred on an average of eight and three tenths how s after

ne operation Group 6 ten rabbits The same glucose s lut on in the same concentration and dosag was injected the bours afte the operation and dustry was injusticed on are mours are toe operation Dearn occurrent on an average of t cl e hours after the ope at on the operation of the operation G oup 7 it rabbits The same glucose sol tion in the same concentration and dos ge has nyected ten hours after the operation Death occu ed on an are age of trelve hours afte the operation

I rom his findings the author draws the following conclusions

1 Hypertonic salt solution had a more beneficial effect on the course of the perforation peritonitis than hypertonic glucose solution

2 The beneficial action was most pronounced

when the salt solution was given early

3 Hypertonic glucose solution had a decidedly unfavorable effect on the course of the perforation peritonitis

4. The favorable action of the salt solution was propably due to a hypochloramic resulting from a

relauve dehydration of the tissues

GIDRGI C LINOLN M D

#### GASTRO-INTESTINAL TRACT

Westphal K. Irritable Stomach, Gastritis and Peptic Ulcer (Reizmagen Gastritis and peptisene Ulcera) Itself f. elm. Med., 1935. exxiv, 655

In studies of ten re-ection specimens the inthor confirmed the accepted histological findings in gastriculeer. He states that the mildness of the inflammators changes found in the gistric mucosa in some cases is explained by the pre operative dietary and medical treatment. The frequently marked hypertrophy of the muscular elements of the gastric wall and the elevation and hypertrophy of the mucosal ruga are to be regarded as anatomical signs of exaggerated physiological function. In four experiments on animals he placed a viable resection specimen in physiological salt solution at hody temperature and then added 1 or 2 c cm of 2 1 per cent pilocirpin solution for pharmacological stimula tion of the vagus. In every instance this are followed by the formation of mucosal folds not previ ously evident and a distinct increase in the elevation of the folds previously present, all or which disappeared when the specimen died Histological examinations of a depressed fold showed local thickening, and on cross section a triingular ar rangement of the muscularis mucose with the apex tot and the mucosa The histological findings in the mucous membrane (cellular exudition, pin point erosions) never progressed beyond those which the author observed in dogs subjected to vigus irritation

The pale, anamic, adamitous are is seen in the experiments on dogs were not found in clinical cases of ulcer The frequently extensive lymph follicle development is regarded not as a manifestation of chronic inflammation, but as a primary constitu tional anomaly The well known proliferation of the mucosi and the muscularis mucosi seen at the borders of chronic ulcers is interpreted as a sign of increased physiological function. I rom these facts the author draws the following conclusion "On the basis of these anatomicohistological findings in the ulcerated stomach as well as on the basis of other observations the concept of the hyper ergic stomach hich develops following experimental chronic irritation of the vagus differs from that of gastritis"

Ulcerous gistritis begins with the preformed erosions of visomotor peptic origin. It is limited to the intrum and is not a diffuse gistritis. The marked pin point erosions probably represent the transition from the normal to the pathological. The author believes that they may develop relatively easily from the hyper ergic irritable stomach. He attempts new pathological interpretations based on the assumption of a primary endogenous constitutional hypo-ergic or hyper-ergic gistric function. The irritable stomach seems frequently to be in a previous state. A gastric or duodenal ulcer practically never develops from a true gistritis or gistro enteritis.

The author believes that there are a large number of individuals with gastric complaints suggesting ulter who have neither an ulcer nor a gastrits. In the cases of such persons the diagnosis of dispepsia is inadequate. In the author's opinion the basis of these conditions is, according to the state of gastric function, a hyper ergic or hypo ergic arritable stomach (suggestionic increase of function or sympathet-

icotropic inhibition of function)

In cases of hyper ergic arritable stomach there is severe early or late pain with frequently increased reid values and a normal or only slightly increased cell count and leucocyte percentage in the gistric nuce. Roentgenographic examination shows a good or markedly tonic stomach with usually vigorous peristalsis and high and sometimes slightly narrowed, but more frequently slightly broadened folds. In cases of hypolergic irritable stomach there is severe carly and late pain with usually an achilla which is not yet histimin resistant, at times only marked hypo acidity and a normal or low cell count and leucocyte percentage in the gastric juice Roentgenographic examination shows surprisingly broad mucosal folds in the cardia and occasionally rapid emptying of the stomach. These two syndromes are not indicative of true gistritis

The author recognizes still another syndrome. which he designates as "hyper ergic irritable stomach of the second grade or hyper-ergic gastritis In this condition there is marked broadening of the mucous membrane folds with an increase in the cell count to 1,500 and a high leucocyte percentage (from 60 to 70 per cent) in the gastric juice. The author considers this a true fundus gastritis without much disturbance of the hydrochloric acid secretion due to pre stasis phe nomena in the capillaries and smallest veins of the mucosa which he has demonstrated experimentally to be secondary to prolonged vagus irritation. From this stasis a localized ordema, hamorrhages due to diapedesis, hemorrhagic infriction, and hemorrhagic erosions in the fundus develop. The author believes this process is similar to that occurring in velopment of erosions in the region of the antrum a gastrie juice containing hydrochloric acid is necessarv The marked cellular evudation or very small pin-point erosions undergo further development as the result of vasomotor irritation in the nature of a

sudden circumscribed ischamia with the secondary sequen circumscences seemens, with the secondary migration of the histocytes in this area toward the nugration in the methodytes in this even toward the gratic lumen, the development of orders, and kessing summer the development of cruenz and haally peptic digestion leading to a nell-developed erosson which may extend down to the lower third of the mucosa. The hydrochlone acid and pepsin of the gastne Juice and the pathologically increased or the gastro funce and the partitionarically interfaces the important therefore the important factors in this process. However, the hydrochloric factors in this process

However the hydroculoric acid alone is not capable of causing the deep crossons actuatione is not capation or causing the ucco etiousnis.

The development of an erosion requires more than a And development of an erosion requires more than a simple superficial tissue defect caused by h) dro supple superfactor the concentration found in every council actual in the concentration nount in e stomach otherwise as would all develop ulcer

Unact outerwise we would all develop uncer The process of ulcer formation follows in general that of the described erosion formation, Less fre fact or the described evision intrinsion as the special are ulcers which develop suddenly from an at duent are dicers which develop suddenly from an at a first possibly anaemic and later hamorrhagic in farct on due to a vasomotor disturbance chronicity of the ulcer is explained by mechanical factors such as vigorous contractions of the mus which cause ischamia of the ulcer bed in vagus which cause ischarming of the dicer year at yagon which are ap irritated stomacns and in areas watch are ap parently susceptible because of marked develop ment of the inframural nervous system and poor bl od vessel anastomoses (lesser curvature and pre-Dyloric area)

yloric area; Attention is called to the vell kno n casonal Attention is cauci to one year and it casonas anations in the incidence of ulcer of the stomach and duodenum

To answer the question as to how such a g ave to amber one question as to now such a K are hyper ergy may develop from the no mai functional types eigy may develop from the no mai tune tomat stimulation in normal d gestion various explanations

c suggested.

As treatment chiefly regulation of the det is recommended If rtel E and Sartori 3 F

e tigations on ti e Effect of Ga tric R section e ligations on tile Electroi tra cricic section on the Bacteriology and Chimility of the Small Inte tin and its Cilinical Significance (L. p. month lie Unt uchu ga u b d n Find y Mg n es kti n anf B kt n l ne und Ch m d Du nda ms und hr kin i me und (h m f h f Ch 933 l x 97 B d ut ng)

In a p evious article Hertel reported expen an a P evious arricle tierres reported experi-ments carried out a animals to determine the effect f gastri esect on on motor function d ges

tion and the absorption of nourishment in the small bowel In the experiments reported in the small bower in the experiments reported in this article the authors studied the bacterial and chemical cond tons of the ontents of the small intestine in cond tons of the ontents of the upper middle oogs with a distant made in the upper instance lover ports n of the small bowel. One g oup of dogs nere used as controls and the thers subjected to a Billroth I or a B llroth II recettion

When hyme was remo ed from the int stine When hyme was remo ed from the int stine through a high fistula following feed against meat through a new count romonate new age with mean makes made or when the number and growth of bacteria mere found to be considerably less in the c at of logs than in the dogs subjected to gastre resection the authors explain this finding by the fact that

after the Billroth I operation and especially after atter the minrom 1 operation and especially after the Billroth II resection the food remains in the the someon as reaction the room remains in the stomach such a relatively short time that it is much stomator such a resultatively short time that it is much less acidified than under normal conditions and ress genuines than unuer montain comments and therefore bacterial growth is favored to a greater extent than in the normal stomach in which hydro calionic acid everts a sufficient action after the caloric acid everts a sun tient action. Her the nutrous at resection there is in addition a dis-turbance of the anatomy and regurgitation of the food elements occurs into the excluded duodenal tong trements occurs may the extraord occurs tong the manual of the copy which favors earlier multiplication of the

In the experiments on dogs with a fistula in the in the experiments on cogs with a notific in meddle portion of the small intestine it was found middle portion of the aman intesting it was about that after both methods of gastric resection the and deter tours mecuous or known resecutor to bacterial content of the chime was considerable Determit content of the engine was communication from the control dogs. This finding in dicates that after resection a marked bacter I occurs that after resection a market pattern in the proximal half of the small growin occurs in the provinces mad of the passage

In the experiments in which the fistula was made a the lower part of the small intestine no marked quantitative difference in the bacteria was fund between the an mais subjected to resection of the stomach and the controls Nevertheless and I

studies showed that the character of the bacters in samues showen that the character of the nactors in this part of the intestine, as different for in the to a post or the mittainer was minerent for in the dogs subjected to resection of the stomach market decomposition processes occurred and there was a decided predominance of gram positive apparently anacrobic bacteria

Prom the clinical standpoint it may be said that in the reserved stomach as the result of the loss of and and tapid emptying achine seature of the keep of and that as a result of the failure of disinf cti n by

the stomach bacteria wandering back from the the stomath outciets wangering out from the colon are not tilled in the stomach but find there a town are not smeet in the stomach but and there a favorable environment. In this return of bacteria iavorable environment an time terms of operations the lower segments of the intestine into the sound the polar segments of the autraine int the second of the pylorus in the reservance. stormath the excussion of the pytorus in the resection also plays a part. The findings of Lochr and tun also plays a part inc angings of Locar and Bittle with regard to the presence of col nic fi to

the ware regard to the presence of coo are a large and a second stomach are in agreement with as the findings of the authors experiments. Never theless symptoms following resection depend I so on the bacterial content of the stomach and in lest ne than on faulty digestion of the food and faulty a similation of the food elements

This e problems were also investigated by the auth is in their animals with fistule. After meat feeling in 1 determinant as made on chime obtain d through the fstule made in the middle and the loner part of the small intestine were h ghest in the cases of the dogs subjected to resection by the Billroth II method lower in those operated upon by the Bills th I method and lowest in the controls After milk and whey feedings the Indines were usually reverse! The authors attribute this rerad to the fact that in the resected stomach emptying occurs precipitately and a liquid food has

less opportunity to decompose than solid food. In agreement with these observations are the better clinical results obtained with a lactor egetable diet

after surgery of the stomach

Parallel with the indol determinations were the determinations of the excretion of indican investigations showed with certain regularity a relationship between the changes of the bacterial flora and the indol values on the one hand and the clinically observed postoperative motor disturbances of the intestine after gastric resection on the other. The demonstrated increase in the number of bacteria in the small intestine and the condition resulting from the change in the bacteria favor the development of other kinds of putrefactive bacteria and increased toxin formation which add enteritis to the disease picture. The fermination tests carried out on the animals also demonstrated the conditions which are associated with dispeptic symptoms in the intact gastro-intestinal tract. The postoperative agastric anamias are also related to these condi-Apparently the association of the postoperative changes with a consequent gastritis is a prerequisite for the development of the sequelæ described. When these findings are considered in relation to the often observed postoperative neurasthema, it appears probable that these patients do not always receive adequate consideration. However, the complaints of a certain percentage of patients subjected to gastric surgery are of a psychological character. The changed bowel conditions with precipitate emptying, the increased bacterial flora, the formation of toxins, and the increased indol content should be considered in the regulition of the diet. The diet should have a low meat content and should consist chiefly of milk, especially sour milk and lactic acid milk. Carbohydrates may also be given as they do not lead to the formation of intestinal toxins to the same extent as proteins To overcome the anumia, liver and stomach preparations or drugs containing iron should be given

RIFSS (Z)

Righi, D Late Intestinal Perforations Following Contusion (Sulle perforation intestinali tardive da contusione) Ann ital di clir, 1933, xii, 1274

The result of the action of contusive force on the abdominal wall depends on a number of factors, the most important of which are the elastic resistance of the wall and the mobility of the intra-abdominal viscera Notinthstanding these protective factors, lesions of the viscera, especially of the intestinal tract, are not uncommon The part of the intestinal tract most frequently involved is the ileum

The contusive force may evert its action over a rather broad surface as in injury by an automobile wheel, or over a more limited area, as in injury by the lich of a horse's hoof The action of the force may be exerted over an appreciable period of time or may be instantaneous | Varving also is the general type of action on the hollow viscera There may be a simple compression such as occurs when a blunt force in

front compresses the intestines against the rigid vertebral column or the pelvis behind, or there may be a tearing such as occurs when the force pulls the loops of intestine beyond the limits of their distensibility Tears are especially frequent in the region of the ilcocrecal valve and the duodenojejunal angle where the intestine is relatively fixed by the peritoneum or ligaments. Bursting may be produced by pressure causing hyperdistension of a portion of the intestines

Right reports a case in which the injury was of a still different character. The patient was a man twenty-seven years of age who was kicked and punched in the abdomen and sustained several shillow stab wounds of the abdominal vall and other portions of the body. At examination about forty-five minutes after the injury there were no positive findings of injury to the abdomen other than the stab wounds. The urine and faces were negative for blood. The patient was recovering in an apparently satisfactory manner when, fourteen days after the injury, about an hour after he had returned to bed following a short period of walking about the ward, and without any premonitory signs, he suddenly passed into a state of collapse accompanied by pallor, cold sweating, loss of consciousness, an imperceptible pulse, and coldness of the extremities The usual treatment was given for the collapse Soon after the patient regained consciousness he passed about 1,600 c cm of fluid and clotted fresh blood by anus, and a short while later he passed 300 c cm more Signs of air hunger then developed The next day more blood was passed. When it became apparent that the bleeding was not diminishing, operative intervention was decided upon

Exploration of the peritoneal cavity revealed no signs of exudation or hemorrhage. The loops of intestine were distended only moderately, and the greater omentum was free and intact. The large intestine was normal, but the transverse colon v as full of coagulated blood. Fluid blood was present in the ascending colon and the ilcum to a point about 40 cm from the ileocrecal valve. In this region there was considerable discoloration with red and brown spots on the mesentery and bowel. The antimesenteric surface of the intestine at this point was also discolored as though from a necrotic process, and was extremely friable. The center of the region was occupied by peculiar coagulated tissue which separated easily from the wall of the intestine, leaving a clean perforation into the lumen of the gut. The perforation was closed, the abdomen drained, and the abdominal wall closed

Death occurred about fifteen hours after the Autopsy revealed a diffuse purulent operation peritonitis although the suture lines were intact Careful inspection of the anterior abdominal wall failed to reveal any evidence of a previous penetrating wound

This case is interesting especially because of the difficulty of correlating the history and the findings of physical examination with the physiopathological

phenomena The author considers the possibility of phenomena the summer consumers the possession of a simple alcer of the sleam an amountage infarct or an anamou under on one means b) a direct traumatic injury of the bone! He sug by a united statement to the perforation may have occurred at the sens that the person across that may have occurred as the of the original injury but was so small that it time of the original injury but was so small that it was closed by prolapsing mucosa. He resards it as more probable bonever that the late development of the symptoms has due to a slowly developing pathological process. He believes that necrotic patnotogical process the believes that necrotic processes nere brought about by pressure and the processes mere urought about by pressure and two of stropnic energy of a standard of the factors of the transport and that secondary bacterial infiltration occurred in the dead fissue

I review of the literature is included in the ds CUSSIOZ

## Edna ds II C DI erticula of th Duodenum and Jejunum La 1 934 cert 1 69

The author limits his discussion to the acquired the author minus are mecasion to the acquired per of diverticals of the duodenum and permum After a detailed description of several pathological After a unitative teachiption of several paramophisms of the disorderum as a thin walked sac opening from the concave surface of the bowel at the point from the concave animac of the boast at the point or responding to the penetration of the tall by a bilant, or pancreatic duct or by a blood west In each of the author 3 five cases the fundes of the in each or the author's the cases the authors of the chicklen was devoid of a true muscular coat the otherwise there was no abnormal by of the sac wall The most common situation of duodenal diserticula is the second portion of the duodenum

ext to the duodenum the most c mmon site of primary acquired discriticula in the small intestine parmary acquired on erricula in the small intestine is the jejunum. Here these diverticula may be is the Jejunum lifete these diverticula may be sangle or multiple. The smaller diverticula lie to one side of the mesentery the opening in the basel being site of the line of mesenteric attachment. In interial to the nine of mesenteric attachment in the author's experience every small directionium is ris author a capetrante exert amon corrections to fellor being situated equidistant f om the mesentery on the opposite side attributes the large pouches often found to his on of attitudes the targe politics with round to the on on According to his observations a pair or smaner ones. According to its observations the sile of origin of these diverticula is not at the the size of origin of them exentery but to one or the other s de of it exactly at the point of enfrance of the blood sessels. Microscopic exam nation of such di ericula shows an arters and vein at the fundus. This finding with an others is normal pic. ture (except for the lack of a muscular coat) is taken ture recept for the mea of a minus was towar in coars, as evidence that the pouches are hernize of mucous as evidence that the bouches are betting or inneous membrane the ugh the muscular coats at points The p esence of a weak area in the bowel wall and

a pulsion force from within the bowel therefore can a pursuon sorte mora merinii sue counci investiore can account for the formation of diverticals. Alth ugh account for the formation of diversional Auto upon several other theories have been ad an ed with regard to the cause of meakness of the tall the tegality to the cause of measuress of the value to the sauthor believes that the most log cal theory is that author beneres that the most log cal through as that the penetration of the numer takes miss accounts the penetration of the vessels. The pressure within the boxes depend on two factors the contents and the muscular con

tractions. Abnormally high pressures may occur h the duod num under certain circumstance the the guou num under certain circumstantes to condition of the pylorus being a definite factor. In the Jejunum it is necessary to postulate some the Jennium at as metrosocial to exhaust concerning the leading the processing th pressure in the lumen

ressure in the sumen.

The symptoms of duodenal diverticula are not Ane symptoms or outdown distriction are my districtive to allow a clinical districtive for allow a clinical dispose sun dentity distinctive to anony a cunical observamethod of diagnosis is \ Tai etamination Great decision of diskinosis to take transportion order in all inbuting 1411001 value d gestive disturbances to diverticula discovered by I tay examination because the presence of dist tray examination occasion in presente of other budla does not necessarily mean that the discreticals trend does not necessirily mean that the abertucia are causing symptoms. Hence complete gastro are causing symptoms accord compact com-intestinal studies to rule out all other possibility including disease of the gall bladder must be made

Only when I ray examination shows barron reten Only when a ray examination shows bettern acted tion in a diserticulum over a long period of time is non in a unsertaturing over a rong period of time is it justifiable to conclude that the distribution is the cause of symptoms Diverticula of the jejunam tarely cause symptoms unless they are complicated

Duoden21 d verticula sinch are causing symptoms Should be removed The operation 1 a serious one sections of the sac and repair of the duo tent a silver operation of the duo tent all removal of toe sac and repair of the movement are sufficient. In multiple Jejunal diverticula resec are surrement an impulsive personal diversions reached to of the affected gut is the only treatment poss ble \ell 15

T BAN ORD JONE WID A Cont ibution on the Eti logs of True

The author reports three cases of true mega duodenum and the state was that of a man thirty seven years old who had suffered fr m gasting distress for seven

one principal scientification disclosed an ulcer of the duodenal bulb which had press ust, been lem a outstead but which had press usly ween ich a stated by foentgen examination bout one finger arraicu of focultan crammation appar one mice. dilatation of the entire duodenum as oristed with an uniation of the entire unocenum as outler q with an equally marked d fluse hypertrophy of the d oden I equaty market a tuse ny pertropny of the doorn a mail. The duodenum was entirely intrap-entoneal in nan and discourse and had a free mesentery intraprentional in a free mesentery. It is a freely is course and mad a tree mesenters.

Lt w 3 mesenters and the abd men the abd No obstruction of the lumin was found 1 The duted No obstruction of the futures was sounded. The common sent over gradually will be an intervening disordensies under gradually with boat an intervening disordensies and the rest into the pipulum which was on the right and of the salaron The vening unocenojejunal because the co the jejunum which was on the right side of the subdonen The waten was on the right sine of the s abdoomed an instance at the color of the color of the color Jefunum auso as quarter in the preture of mesenterium community upon the preture of mesenterium community and the colors of the the facture of incaenterium companion. The community was in the left side of the abdomin and carrier Castre and the factor of the Ballouin and Castre and the Ballouin and Bal has no the test base or the annuming first carry above essection by the Bull th II method with a Braun Anastomos s nas done

The second case was that of 0 ears strong case was that of 0 may that two
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fir the pylorus The fi st part of the cd loodenum was un

changed but the superior horizontal part vas dilated to the size of the large intestine and was freely movable. There was no obstruction. The other findings and the treatment, ere the same as in the first case.

The third circle is that of a box eighteen years old who complained of vague plans, but refused operation. On roentgen examination the stomach and duedenal bulb vere seen to be normal, but the superior horizontal part and especially the descending part of the duodenum vere markedly dilated. In a the rest of the small intestine, they lay without a flex are on the right side. The descending colon vasion the normal situation, but the rest of the large intestine was arranged in a series of loops and slings.

In these three cases there is an arrest of the deselopment of the intestinal anlage which vas assocritical with a marked dilutation of from 50 to 60 cm and hypertrophs of the duodenum and the upper part of the acumum. The arrangement of the intestinal loops represented the position characteristic of mesenterium commune. Similar observations are found recorded almost exclusively in anatomical records, being seldom mentioned in the records of operations. Rountgenograms of the condition are lacking. An etiology an ilogous to that of congenital megacolon cannot be considered for this part of the intestinal tract, an organic obstruction can be ruled out, and a functional disturb ince cannot be assumed The duodenojejunal flexure is the pivot around a high the entire intestinal development occurs, and if the migration of the duodenum toward the left does not occur the spatial development of the intestinil unlike in general is defective, and mesentefrum commune persists

In the cases reported in this article it a is striking that the dilatation and hypertrophy of the duodenum were tound in association with mesenterium commune. In mobile duodenum which also is to be reported as due to an arrest of development and becomes differentiated from mesenterium commune only gradually the same changes are observed in the upper part of the small intestine. It is therefore eraptodable that the dilatation of the upper portions of the intestine as related to developmental disturbances of the intestinal analyse. Ho ever there is a difference but seen the dilatation of the dilatation dilatation dilatation of the dilatation dilatation

Other duoderal diseases may also be associated with marked dilutation. Therefore the picture of such advocation is varied and the result of operation is dependent upon the anatomical findings. When the dilatation is associated with alroph correction of the flexure is not subscient and introne-ocolic duodenojejanostoms must be done.

STELLSHIP DE

Williams, B W and Boggon, R H The Mechanics of Appendicitis La ed 1955, term of

Two chief types of appendicitis are recognized—acute appendicitis, which is a definite and recognized disease, and chronic appendicitis, which is often viewed with some suspicion. In the acute form the disease is in reality an acute obstruction of the appendix in a large percentage of the cases.

The juthors report a study of the pathological mechanics of appendicus made in 108 cases in a high the degree of necrosis of the appendix as not too for advanced to permit satisfactor micro-copic study and 340 cases of chronic or recurrent appendiced disease. In 38 of the latter there has a history of acute attacks.

Of the 168 cases of acute appendicitis acute obstruction of the lumen of the appendix—as found in 07.2 per cent. This obstruction was the result of a pre-existing throtic stricture of informators origin in the submucosa

A fibrous stricture in the submucosi vas found also in the cases of chronic or recurrent appendicitis. In the inter-als between the acute attacks in such cases inflammatory cells may be completely absent Chronic inflammatory appendicitis in the absence of a fibrous stricture has not been observed.

The authors conclude that the fibrotic stricture is not congenital but is due directly to infection else where in the body. The infection leads primarily to a swelling of the lymphoid tiest ear, the submicose of the appendix, ath resulting narroung of the lumen of the organ. Localizing signs of obstruction develop only when a true acute appendicties is present.

Nutrall H.C.W. The Fallace of Expect int Treat-

fication for the assumption that delayed operation is best for cases of acute appendicitis seen two or three

days after the onset of the condition

The author outlines routine expectant treatment
and exposes its serious disadvantages some of which
he illustrates by examples from accounts of advo
cates of the method

Sakugu Kann M D

## keyes E I. Deaths from Appendic tis Su g 1934 xcrt 47

This article is based on 1 859 cases of appendic tis admitted to the Barnes Hospital St Louis and the St Louis Children's Hospital during the years from 1915 to 1922 Only the cases of patients who sere operated upon for appendicitis or who ded from appendicitis without being operated upon were in cluded in the study There were 62 deaths a mor tality of 3 33 per cent. In the 1 470 cases admitted to the Barnes Hospital the mo tality was 2 16 per cent and in the 380 cases adm tted to the St Louis Children's Hospital it was 7 80 per cent. The mor tality was highest at the 2 extremes of life being 12 29 per cent in the cases of patients between one and nine years of age and 42 I per cent in the e of patients between s try and seventy s z years of age It was lowest in the cases of patients in the third decade of life The mortality of males was 5 18 ner cent that of females 1 5 per cent that of negroes 6 per cent and that of 1 bite patients 3 13 per cent Seventeen patients were operated upon during preg nancy with a mortality of 58 per cent

The cases are divided into the following 6 classes (i) those of chronic appendictus (3) those of shronic recurrent appendictus (3) those of shacute appendictus (4) those of acute unruptured appendictus (5) those of unpfured appendictus (5) those of unpfured appendictus (5) those of unpfured appendictus with abscess and

(6) those of ruptured appendic to with peritonitis There were approximately 400 cases in the first class 300 in the next four classes and 100 in the sixth class Most of the Barnes Hosp tal cases be longed in Classes I to 4 whereas most of the Chil dren's Hospital cases belonged in Classes 4 to 6 showing that the process is much more acute in children than in adults. There were no deaths in the cases of Class 1 In those of Class 2 the mor tality was o 6 per cent in those of Class 3 o 59 per cent in those of Class 4 2 32 per cent and n those of Class 5 73 per cent In the Children's Hosp tal cases the mortality in the cases of Class 5 was 9 02 per cent whereas in the Barne Hosp tal cases it was 6 2 per cent In the cases of Class 6 the mort lity was 27 55 per cent In the cases of this class in the Children's Hospital it was 38 I per cent and in those in the Barnes Hospital it was 10 6 per cent When analyzed according to the time limit t was found that the mortality rapidly rose with delay. In the cases of patients who took a laxative the mortality was 176 per cent whereas in the e of patients who had not taken a laxative it was 2 38 per cent

Mentioned in order of decreasing frequency the causes of death were general peritonitis abscess of the peritoneum intestinal obstruction infect on of the operative wound pulmonary embolism myo cardial insufficiency pneumonia pylephlebitis erysipelas measles asthma and leukamia

In discussing the ways in which the mortality of appendictic can be decreased keyes emphasic that appendictics has a higher mortality under certain conditions than under others. The time at which operation is performed is of importance Early disgnoss and early treatment should mate railly decrease the mortality. Removal of the appendix in the interval between attacks is recommended. Dramage of an appendical abscess should always be followed by appendictomy.

ALTON OCH ER VID

#### Wilkie D P D Cancer of the Colon Its Surgical Treatment L cet 234 ccxx 65

In the past few years rad otherapy has been substituted for radical operature measures for cancer of such regions as the lip tongue mouth cervar and breast In cancer of the hollow viscers of the abdomen however operation is still the only means of core. In cases of malignant trumers of the rollow of the control of the

The author reports on 101 cases of carrunoma of the colon in which he was able to do a partial colectomy. In 74 the lesson was in the distal hall of the colon that is beyond the midpoint of the transverse colon and no 71 it was in the protund half. The sites were as follows prives colon of the 13 cases transverse colon if cases execut 5 cases splence flexure 5 cases and hepatic flexure 1 cases

In its early stages cancer of the colon may produce few symptoms III it is to down in the pelvic colon it may cause occasional tenesmus the passage of blood and muces and some slight irregularity of the action of the bond. A growth in the distil part of the colon is usually not associated with an appreciable loss of weight. In cases allowed to progress until complete obstruction has developed the most striking feature on examination may be swell age and tendences in the right lower quadrant

of the subdomen.
When the past ent is seen first after acute obstruction had developed the immediate indexto is draining of the boned above the obstruction by caccostomy. For first drainings the coccum activation to the control of the colon grow slowly estimated to the colon grow slowly estimated the colon grow slowly estimated to the colon gro

The chief danger of resection of the colon is infection due to imperfect technique inadeq ate preparation of leakage at the suture line

The author attempts immunization by giving in pections of bacillus coli and streptococcus e ght and three days before the operation. To produce a leucocytosis on the morning of the operation he gives an intramuscular injection of 5 c cm of a 5

per cent solution of nucleinate of soda the evening

The technique should include complete mobilization of the involved portion of the colon so that the ends to be sutured will fall together without tension. If end-to-end anastomosis is decided on, the tænia of the colon must be divided to get rid of the sacculations so that tension will be equal on all points of the circumference of the bowel. Interference with the blood supply of the approximated cut margins must be avoided as far as possible. If not already established, a cæcostomy opening should be made to prevent gaseous distention of the colon during the first weel, after the operation.

In the 101 cases reviewed by the author there were 15 deaths Charles F Du Bois, M D

#### LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Bržozovskij, A Contributions to Current Problems in Surgery of the Bile Passages Based on 165 Personal Observations (Beitraege zu Tagesfragen der Chirurgie der Gallenwege auf Grund von 165 eigenen Operationen) Aov chir Arch, 1933, xxviii, 164

The clinical concept of congestive gall bladder should probably be retained although it is necessary to exclude from the large number of supposed cases of this condition a not small number in which the diagnosis is erroneous—cases of gastric and duodenal ulcer, chronic duodenal obstruction, appendicitis, and kidney lesions. In the production of colic in the congestive gall bladder mechanical disturbances to the flow of bile, infection, and dyskinesia of a neurofunctional nature are the most important factors. After subtraction of the cases due to these factors there remains a smaller group which represents a transitional form between dyskinesia and cholehthiasis to which the term "congestive gall bladder" is most applicable.

The author's material confirms the opinion of others that in most cases congestive gall bladder is the initial stage of a stoneless cholecystitis, and that a sharp line of demarcation cannot be drawn between the two conditions However it cannot be concluded from this that all cases of stoneless cholecystitis have their origin in congestive gall bladder In some cases the congestive gall bladder and stoneless and calculous cholecystitis are successive stages of one and the same inflammatory process. There are also numerous cases in which the disease develops in the following sequence dyskinesia, congestive gall bladder, stoneless and calculous cho-However, we must not generalize too much and consider every case of stoneless calculous cholecystitis as a stage of one and the same infection process Stones may be formed without infection as the result of a disturbed chemism (cholesterin diathesis Bourhard, Aschoff) and the calculous form may change into the stoneless form after passage of the stones into the bowel

As the gall bladder is the principal if not the only focus of infection, cholecy stectomy should be performed whenever possible Cholecystostomy should be done only in cases in which a more severe intervention is contra-indicated by the general condition or in which extensive and deep local changes render removal of the gall bladder impossible. In this procedure the common duct should be explored Complete closure of the abdomen should be done if the common duct is patent, no acute virulent infection is present, and the cholecystectomy has been performed with a perfect technique—secure ligation of the stump of the cystic duct, good hæmostasis, and good peritonization of the operative field Otherwise a small drain should be inserted

Operation is indicated in the majority of cases of disease of the bile passages and should be performed as early as possible. Even a not absolutely necessary operation during the acute stage may be justifiable. In cases with few or no complications, cholecystectomy has a low mortality and a further lowering of the mortality and improvement of the end-results must be expected chiefly from early operations.

Postoperative colic and recurrence of pain are usually due to persisting infection. In spite of all the good results obtained, it appears that operative treatment does not always cure disease of the bile passages and a certain number of patients subjected to it must continue medical, dietetic, and balneological treatment afterward

The author's material consisted of 153 cases—22 those of men and 131 those of women—in which 165 operations were performed. A history of typhoid was given in 45 The duration of the illness ranged from less than one year to thirty years In 60 cases it ranged from one to five years. Of the 46 patients with acute cholecystitis-22 without stones-all were discharged cured, and of the 88 with chronic cholecystitis—31 without stones—4 died Of the 13 patients with stone in the common duct, 4 died Of 6 with obstructive icterus with chronic pancreatitis or a malignant tumor, 2 died Of 2 with acute cholangeitis, 2 with postoperative adhesions, and 2 with cancer of the gall bladder, 3 died There was 1 case each of echinococcosis, rupture, and hydrops of the gall bladder

In the diagnosis the author was aided most by duodenal sounding with study of the A, B, and C bile

Cholecystectom, was done 115 times with 5 deaths, cholecystostomy 21 times with 1 death, choledochotomy 15 times with 4 deaths, cholecystogastrostomy 6 times with 3 deaths, separation of adhesions 5 times, exploratory laparotomy twice, and cysticotomy once. Of the 13 fatal cases, the cause of death was peritonitis in 3, cholæmic hæmorrhage, heart failure, and acute vellow atrophy of the liver in 2 each, and cholangeitis, acute ileus, a lung complication, subdiaphragmatic abscess in 1 each In the 136 cases in which cholecystectomy or cholecystostomy was done there were 6 deaths, a mortality of 44 per cent. The causes of these deaths

were (t) late operation f llowing rupture of the gall were (1) late operation 1 moving rupture of the gal bladder (2) acute yellow atrophy of the liver follow ing the use of poor chloroform (3) an overlooked ing the use of poor chiorototin (3) an overconcers stone in the papilla (4) stenosis of the duodenum stone in the papilla of Vater (5) an overlooked stone ocion the papers of vater (3) an inversionate above in the common duct and (6) operative injury of the as the bosinions duck and the separation of evten sive adhesions

ve agnessions Of 19 cases in which cholecy stostomy was done the Of 10 cases in which empley stosionly was none the results were poor in more than 50 per cent (repeated results were poor in more man 50 per cent (repeated operation in 7 recurrence of pain in 2 persistent fistula in 1) Many of the patients could not be Issued of 63 cases in thich cholecystectomy was done normal healing occurred in 40 (63 5 per cent) cone normal nearing occurred in 40 [03 3 Per cent), slight discomfort persisted in 16 (25 4 Per cent) and no imbronement tesnifeq in 1 (11 1 bet cent) G LIPOV (Z)

segments hidney pain i reflected through the tenth eleventh and twelfth dorsal nerves and the tenth eleventh and twenth dorsal nerves and in-fest lumbar nerve both antenorly over the ab test iumoar nerve both anteriority over the ao domen and thigh and posteriorly in the lumbar re gions Urete al pain is expressed both poster if Bladder pain is usually expressed through the

Blaquer pain is usuany expressed through the eleventh and twelfth thoracte and from the first to enevents and ewester thousand and from the first to the third lumbar segments although it may refer is the third immoar segments although it may reter us pain also through sacral nerves. In a brings it low pain also through sacrai nerves and surings a condo in in the abdomen antenorly as expressed oo in in the automien anteriory as expressed through thoracic nerves and in the peritoneum and down over the leg through the sacral nerves

own over the leg through the satial herves In conclusion the author calls attention to the fact In concussion the author caus attention to the fact that all viscera with a vagal supply may transfer that an viscora with a vakar supply may trainer. stimul to the fifth crantal nerve and express pain in some of its peripheral branches

## MISCELLANEOUS

## Pottenger F M Clinical Aspect of Abdominal Pain f tm 31 Ass 934 cu 341

Since the cell bod es of the afferent neurons that supply a given viscus are located in the same seg supply a given visiting are notated in the same are ments of the cord as the efferent neurons going to the viscus and since the cell bodies of the somatic motor and sensory nerves which express refler ac flon and referred visceral pain are located in the same segments a knowledge of the connector nerve supply of an organ makes known al o the skeletal suppay or an organ manes known as o one secreta flexes from that organ will be most apt to be expressed. If reflex effects and referred pain spread pressed 11 tenes energy and required point spread they are most apt to be expressed by neurons arising either above or below in segments adjacent to those

Following the lungs heart and aorta caudad in the cord the stomach liver gall bladder pancreas and small intestine are innervated from the fifth to the annih thoracic segment but the skeletal a ea in which individual organs regularly express reflectes and referred pain is more or less distinct for ea h and reference pain is more or read to organ. The stomach expresses its pain most read to organ the soundarn expresses its pain most read to in the epigastrium in the med an line and in the left in the epigastrum in the med an one and in the serior side in areas, supplied by the sixth and sev inth thoracic spinal nerves whereas the liver and gill bladder express their pain most ead by in the med an onauger express onen paminosi, eau iv in enemen an I ne and on the right's de Postenorly, the pain may he expressed in the nterscapular regi in through the fith to the much dorsal spinal nerve on the left side from the stomach and on the right f om the liver and gall bladder The small intestine refers its pain most readily to the median line n areas supplied by sp nal sensory nerves from the eighth minth and tenth

Next in order are the colon kidney ureter and bladder which are supplied by new ons arising in spinal segm ats f om the nath thorac ct the third spinar segor user von the colon is expressed most com monly through the eleventh and twelfth the acce nerves ove the lower part of the abdomen but may be e pressed also in the first second and third sac al

# Meyer II I The R action of the Ret operitonest

Per 11 1 the R action of the ret opening.
The sues to Infection 4nn S f 1934 xc. An attempt was made to determ ne whether or not infections of the retropentoneal tissues have a higher mortality than infections of the peritoneum. The early nork of Wegner demonstrated that death maj occur from the absorption of tox ns before reactive factors can be set in action that is before penioniiis can develop that small numbers of bacteria may be can develop that small numbers of pacteria mer widestroyed before they can do harm, and that stag nating fluid in the peritoneal cavity favors the de

In the authors experiments two types of or an ene author a capetiments and types of the staphylococcus aureus and

Intrapertioneal and retropertioneal injections seee made at the base of the gall bladder and com plete necropsies were performed as soon as possible after the animals died. The animals that apparently atter tine animais one of the animais trace apparents of the injections nere etos en trom une enecto or une injectiono necesibiled after twenty days and also subjected to

In the animals rece ving the intraperitoneal n ject ons the clinic I reaction was distinctly different from that occurring in the animals recei ing the retrope toneal njecti ns Within a few hours the intrape itoneal inject on 1 as f lloned by marked illness a decided ise in the temperature loss of the desire to eat and drink nauses y m ting mitabil its darrhosa (in several astances) and prostration Following the retropenioneal injection there u s no mmed ate reaction of acute toxamia but after appa ent recovers from the operation there was a gradual det to atton of the animal's condition which was accompanied by loss f the desi e t eat wanter was accompanied to the title desired constitution and drink occasional om ting increasing diarrhera and ss of weight leading to extreme emacration and

The only deaths following the ntraperitone I n jecti ns were mmediate d aths from t vem three of five animals dung from town a the peritoneum was sterile and no abscesses or s rns of peritonitis could be found. Of the animals receiving

retroperitoneal injections, one-third of those given injections of staphylococci and three-fourths of those given injections of pyocyaneus bacilli developed abscesses. All of those developing abscesses died. It therefore seems apparent that the retroperitoneal tissues are less resistant to the invasion of bacteria than the peritoneum.

The findings of these experiments have a direct clinical application to the burying of infected stumps, as after cholecystectomy and appendectomy. In the author's opinion, many postoperative abscesses attributed to this cause would not occur if the infected stump were allowed to come into contact with the peritoneum instead of with the retroperitoneal tissues, which have less resistance

NORMAN G PARRY, M D

Stepp, W, and Boeger, A A Contribution on Certain Rare Abdominal Tumors, with Special Consideration of Retroperitoneal Sarcomata (Beitrag zur Kenntnis einiger seltenerer Bauchtumoren unter besonderer Beruecksichtigung der retroperitonealen Sarkome) Muenchen med Wehnschr, 1933, 11, 1362

An accurate X-ray examination reveals clearly, in almost every case, the condition of the gastro-intestinal tract and shows whether an abdominal tumor is within or outside of this tract. The authors report an unusual case of chronic invagination of the ileum due to a lipoma the size of a hen's egg in the lowest part of the ileum. They then report a case of myoma of the stomach which was the size of a child's head

Too strong previous purging is often more disadvantageous than no preparation at all because the intestine is often thereby filled with air. In icterus with closure of the efferent bile ducts the observation of Courvoisier's symptom has proved of great importance. An easily palpated gall bladder in a case

of long-standing icterus very often indicates a carcinoma of the head of the pancreas. Cystic tumors of the kidneys and the efferent urinary passages, and especially tumors of the ovary, may cause certain diagnostic difficulties, particularly when they are large tumors extending to the liver. Large intestinal tumors and periappendicular abscesses can generally be recognized easily and pancreatic cysts usually cause no difficulties. Occasionally, the possibility of an aneurism of the aorta must be considered.

The differentiation of cystic tumors of the pancreas from the often cystic and soft retroperitoneal tumors of the sarcoma type may be difficult Systematic X-ray examination is of decisive value Pyelography is especially important because it reveals displacement of the kidneys or other changes brought about by the pressure of a retroperitoneal tumor The symptoms of retroperitoneal sarcoma are at first very indefinite, consisting of fatigue, loss of strength, loss of weight, and indistinct local troubles Only when the tumor becomes so large that it is palpable do the local difficulties become more severe The tumor then causes pressure on the large nerves and vessels, congestion obstipation, and enlargement of the veins. In the differential diagnosis it is necessary first to consider tumors of the kidneys and adrenals. An examination in the knee-elbow position sometimes yields further information. Next, it is necessary to eliminate pancreatic, hepatic, and mesenteric cysts, Braun tumors, peritoneal indurations, and echinococcosis of the liver and Lidneys Lymphogranuloma and lymphosarcoma of the retroperatoneal glands must also be considered in the differential diagnosis Decisive findings with regard to these conditions are the condition of the blood, swellings of other lymph glands, and tumor of the spleen

TAPPEINER (Z)

#### GYNECOLOGY

#### UTERUS

Healy W.P. Radiation Therapy in Carcinoma of the Corpus Uteri. Im J. Ohit & Gyn c. 1934 11Vii 1

Healy states that despite the fact that hysterectomy is regarded as the treatment of choice for carcinoma of the corpus of the utens. Here are many cases in which it would be asserted with grave n k of a latal outcome because of complicating conditions. He reviews are cases as follows.

Grade + papiliary adenoma malagnum 14 cases The grow th is entirely papiliary 1t may not b superficial but as a rule does not tend to inflirts the myometrum. It resembles adenomated endonomated the normal of the 14 patients whose faces are reviewed all are also and ned! Three were treated by irradiation alone and 7 by the intra uterine application of radium followed by 8 piscerectoring after from as to ten weeks. Three who were treated by hysterectoring followed by 8 ray therapy have sufficient and the sufficient of the sufficie

Grade 2 adenoma malagnum 36 cases. This is on is commonly found us a sociation with fibromyoma In 27 of the 56 cases reviewed the treatment was instituted to treatdation and of the patients treated by treadation alone 74 per cent are alive. The average duration of 16 since the treatment is she wand three tenths years. The patients who ded were in an advanced stage of cancer when they were first seen. Of the 21 patients treated by hystecctomy with or without tradation on 35 per cent are living. Of the entire group 5a 5 per cent are living of the entire group 5a 5 per cent are living from one to fifteen years a neet he treatment.

Grade 3 adenocarcinoma 44 cases Twenty one of the patients received only rendation therapy consisting of the intra uterne application of radium and the external application of Y ray irradiation tente the entire pelvas. Then werenge agenus addition to the entire pelvas. Then werenge agenus and have been well for an average of long years. The 6 who died were given only palliative irradiument as they had metastasses at the time they were first seen. Of the 14 who were treated by irradiation followed by hysterectomy 57 per exent have remained well for terrectomy followed by irradiation onth 33 pe cent. The period of the second o

years
Grade 4 cellula (anaplastic) adenocarcinoma 8
cases Desp te the extremely malignant histological
characteristics of this lesson the patients in the
group progressed fairly well when irrad action was an

important part of the treatment. Two patients each safty eight years of age who were treated by a intrautenne applications of radium have remained will and free from evidence of it eurrence for two and seven years respectively. These patients treated by it is of them at the present time back of neal and \ verevidence of a mensions in the chest one year after the operation.

Adenocanthoms 8 cases Of the patients with this condition all are above except t who died from an undetermined cause two months after byster ectomy.

In the 132 cases there was no op tative mortality

EDWARD L. CORVELL M.D.

#### ADNEXAL AND PERINTERINE CONDITIONS

Mandel tamm A Conservative Operations on the Fallopian Tubes Full Term Normal Pregnancies After Bliateral Tubal Implantation and After Bliateral Tubal Rectin (Nambber to Thomps Tubal Pregnancian Aug trage e normale Sch ngerschaften ach doppelet uter Eletereundlang und nach doppel tuter.

Two occocks of Zei List f Ch. 1933 p. 213. With a good technique is should be po sable to tain permanent permeability of two him to the uterus in o per ent of the case. Even under such conditions however the possibility of pregnancy is not assured. Regardless of the reports of French syncologist the frequency of pregnancy and present procedures the frequency of pregnancy and present procedures of the process of the process

After reporting a ca e of pregnancy following tubal implantation the author alls attention to certain factors which are important for successful r sults from the operation. He states that the prognosis is much better when onl the isthmic portion of the tubes is occluded than when the ostium is also in volved and salpingostomy i necessary. It is better also in occlusion due to non specific infections or chemi al a ritation (injection of a dine) than in occlusion due to gonorrhoral infection. Sph ting (Pap formation) of the tubal end to be implanted is important. The canal in the uterine wall is best made by circular exci ion. The longer the implanted tube the better the chance for a successful result as the isthm: portion of the tube even if only partially preserved apparently plays an important part in the transportation of the ovum

The author reports a case of normal pregnancy in a woman who was twice operated on for extra ute in pregnancy. One tibe was removed At operation 1 the sec ind tubsl pregnancy the author removed only the pregnant part of the tube and made a new sostium (the z, cm stump 4 series).

uterine pregnancy occurs very rarely in a stump that has been left, he recommends for the childless woman the conservative tubal operation described by von Ott, which consists of splitting of the tube removal of the products of conception and sature of the tubal wall Frommer (G)

Vernet, E. G. The Innervation of the Ovary from the First Stages of Its Development (Coaunbución al estadio de la inervación del o ano desde sus primeros estadios evolucios). Rem med de Burtelona, 1933, v, 402

The author describes in detail and shows by photomicrographs the findings in animal and human ovaries in various stages of embryonic development. He in estigated particularly the origin and the distribution of the nerve fibers and attempted to determine whether there are nerve ganglia within the ovary.

He found that the nerves supplying the ovary originate from the pre-aortic ganglia at the level of the kidneys. In early embryonic life the ganglia from which the nerves for various organs originate are here crowded together in a very small space. These ganglia are derived from the sympathetic cord, and the ganglia for the different organs are closely connected with each other. Passing through them are also sensory fibers from the spiral nerves which furnish the sensory nerve supply of the ovary. The nerves enter the orary in the lateral part of the hillus. The center of the hillus is occupied by the vessels.

From a careful study of a series of sections of the ovary of an embryo ten days old which were stained with pyridin and silver nitrate the author concludes that ganglia are present within the ovary

AUDRE: GOSS MORGAN M D

Spivack, M Polycystic Ovaries in the Newborn and Early Infancy and Their Relation to the Structure of the Endometrium 1r J O25' & Gynec, 1034, xxvii, 157

The material on which this report is based consisted of thirty-six specimens. The ages of the subjects from which the specimens were obtained ranged from the seventh month of fetal life to the seventh month of extra-uterine life.

Cystic follicles were found in 30 per cent of the entire number of specimens. In the majority, the granulosa was pycnotic. Karyolysis, karyorrhexis, partial autolysis of both nucleus and protoplasm, and vacuoles were observed. The granulosa layer was most often detached from the cyst wall and free within the cavity.

In only a few cases had the theca interna acquired the characteristics of theca lutein cells. No ovum was found in the large cysts. Primordial follicles were present in all of the specimens. Growing and maturing follicles were found in all but seven specimens. Polyovular follicles and polynuclear ova were observed. Vascularity of the ovaries was com-

Hyperplastic endometrium was found in five of the newborn infants. Its incidence was therefore the per cent in the whole group and an per cent in the newborn infants, including both those born prematurely and those born at term. In no instance was distinct hypertrophic and hyperplastic aterine macosa found in the older infants but in one case yery mild stimulation was noted.

The coexistence of polycystic oraries and hyperplastic endometrium was observed only in tyo newborn infints. Polycystic ovaries were found in Spec cent of the infants out in only 13 per cent of the newborn infants and in only 25 per cent of the newborn infants which were born at term. Polycystic ovaries in infants three weeks o'l and o'der were usually not associated with hyperplastic and hypertrophic endometrium. There seemed to be no causative relationship between cystic follicles of the oraries and the synicture of the enforcement in the newborn and o'der infants.

The greater precombinance of polycy stic orants in older minuts than in newborn infants suggests that cristic digeneration of the follows may be of extrautence orann and dependent upon activity of the pituitary gland of the infant.

LOWER I CORNELL M.D.

#### EXTERNAL GENITALIA

Tadde: A - A Contribution to the Study of Cysts of the Duct of Bartholin's Gland (Contribute alle studie det a cisti an date data chandes all Bartein.) Circar to 3 m. 100.

The author reviews the Literature on cysts of the duct of Bartholm's giard and reports eight cases

He accepts the classification of Pozza. Forgue, and Massabian who recognize the following three distinct types of costs (1) superfinal costs occurring as dilatations of the excretory ducts of the vulvoyaginal glands, (2 deep cysts which involve the lobules of the gland proper and are sometimes referred to as accinous costs," and (3) accessory vulvoyaginal gland costs which develop beneath the mucosa of the vestibule

The superficial costs are the most common. All of the costs in the author's cases were of this type and were cystic allatations of the excretory duct. In six of the cases the cyst was situated in the labia majora, and in two in the labia minora. The size of the costs varied from that of a nut to that of a hen's erg

The deep cysts are relatively rare and are often much larger than those of the other types. In Chourakine's case the gland reached the level of the knee, and in Mangiagolli s case 2 liters of fluid were aspirated from the cyst

Microscopically, all cysts of the vulvovaginal glands can be shown to consist of three fairly well defined layers—an outer loose connective tissue layer richly supplied with blood vessels a middle compact fibrous layer, and a lining epithelium. The character of the lining epithelium depends upon the

point of origin of the cyst the cells therefore varying from the stratified squamous to the cylindrical type As these cells are subject to considerable modifica tion by pressure and inflammatory changes areas of greater or less destruction and alterate n of the epithelium may be encountered throughout the microscopic sections

The cause of the cysts is still obscure but in fection and trauma seem to play a part in their de velopment The author believes that the pathogen esis is dependent not only on stenos s or obstruction of an excretory duct but allo on the functional activity of the gland GEORGE C Fro & M D

#### MISCELLANEOUS

Araya R Ovulation and Menstruation (O ulat et me stuti ) S 033 1 540

The author made a very exhaustive study of the relation between ovulation and menstruation in the cases of 464 v omen operated on at different stages of the menstrual cycle and during pregnancy lactation and metrorrhagia. He made careful microscopic studies of the corpora lutea and of the uterine mucous membrane. His findings are shown

by photomicrographs

Contrary to the generally accepted opinion Araya found that there is no definite chronolog cal relationship between the ruptu e of the follicle and the beginning of menstruation. He demonstrated that o ulation and menstruation are two separate functions independent of each other. In many of the eases renewed menstruation took place when there was no corp s luteum and no mature f llicle That women may have mature corpora lutea without menstruat on is shown by the cases of young girls who have become pregnant before menstruating Mature corpora lutea have been demonstrated surgically in women who were not menstruating. Absence of the uterus does not prevent o ulation as has been shown in women after hysterectomy and in congenital absence of the uterus That neither the corp s luteum nor the follicle determines me struction a shown by the fact that menstruation takes place when they a e removed artificially Me struction is sometimes stopped or del jed by operation when the corpus luteum is in full development Menstruation is sometimes brought on by emotional causes at a period quite different from the normal one. The menses may be stopped by tuberculosis or other diseases without preventing pregnancy Changes are b ught about in the me strual rhythm by metrorrhagia and other conditi ns witho t inter fering with normal ovulation

Araya concludes that menstruation is a hythm cal phenomenon occurring only in man and the h gher primates and 1 not the ame as rut in the lower animal It is subject to hormonal infl ences as is ovulat on but the 2 processes a e not dependent on each other chronolog cally Therefore there is no greater probability of fecundation at one penod of the menstrual cycle than at another and it is im poss ble to set any definite date for the termination of a pregnancy The corpus luteum cannot be c n sidered the sole cause of certain menstrual disturbances In the treatment of menstrual d sturbances such as amenorrhora and hypomenorrhora total ovarian extract may be given with or with out extracts of other endocrine glands

ALDREY GOSS MOR AN M D

Ovulation and Menstruation B ! M J Shaw W 934

The normal menstrual cycle is believed to be twenty eight days the first day of the period of bleed ng being counted as the first day of the cycle The ovaries on which the author's studies of ovula tion were made were obtained from 16 women 11h a twenty eight day cycle They were removed at operation f r such gynecological conditions as fibroids and myohyperplas a In all cases the first day of the last menstrual period the date of the operation and the patient's normal cycle were

recorded Of the thirty six cases specimens of a recently ruptured follicle were secured in six. In all of the latter the classical signs of recent rupture ere found There was extreme hæmorrhage in the theca interna layer and the granulosa cells were b th proliferating and unde going hypertrophy corpus luteum convolut ons had not yet formed Four specimens were obtained on the thirteenth day and two on the fifteenth day of the cycle These si specimens of recently ruptured follicle suggested that oxulation had taken place at about the four teenth day of the cycle Among the thirty cases in which the specimen was obtained after the th reenth day the e was none in which the ovar es did not con tain e ther a recently ruptured follicle a prol ferat ng corpus luteum or a mature corpus I teum The later in the cycle that the specimen vas remo ed the more mature was the corpus luteum Proliferat ng corpora lutea we e found particularly at about the seventeenth day In specimens observed in the early part of the cycle no recently ruptured f ll cles were seen and the corpora lutea detected in the ovaries were retrogressing

Specimens showing recently ruptured follicles indicate quite clearly that there is I tile va iat on in the time of o ulati n It sprobable that of more than two days from the fourteenth day of the cycle hardly e er if e e occurs in the human

female

In weighing the evid nce ag not the theory of Teacher and Corner wh have reported well authenticated cases n which n corpus luteum was found at autopsy in the ovar es of women who had been menstruating reg larly Shan states that in h s opin on s ch cases mu t be very exceptional and should be reg rded as p th log cal In the o ares of women with normal m nstrual cycles which were stud ed by h m regula v lation could be demon

strated He therefore believes that of ulation should be regarded as an essential part of the sex cycle of the human female

In the studies reported, seventy specimens of endometrium were examined The material consisted of sections through the entire thickness of the uterus, including both endometrium and myo-The proliferative phase consisted of a diffuse hypertrophy of the endometrium without departure of the glands from their simple tubular form One of its most striking features was the onset of ædema and hamorrhage into the stroma of the This was demonstrated as early as endometrium the seventh day of the cycle Within forty-eight hours of the cessation of menstrual bleeding, repair of the surface epithelium was complete and proliferation had developed. The secretory phase of the endometrium, during which the glands become crenated and accumulate secretion, is restricted to the latter half of the menstrual cycle One of the early signs of the secretory phase is the appearance of translucent areas behind the nuclei of the cells of the glands These areas were found on the seventeenth day of the cycle and in some cases could be demonstrated as late as the twenty-first day

The investigations indicate that after the fourteenth day of the cycle specific changes take place in the functional layer of the endometrium, changes which are never seen at an earlier stage of the menstrual cycle If it is assumed that these specific changes are induced by the corpus luteum formed from the follicle which has ruptured, the time of ovulation can be deduced On this basis the time of ovulation can be determined roughly The findings reported prove that the specific crenations and the bright areas in the cells of the glands are never found before about the fourteenth day, and do not become well marked until the seventeenth day A study of the endometrium alone, without knowledge of the changes in the ovaries, would lead to the conclusion that some factor that was responsible for the secretory phase of the endometrium was introduced at about the fourteenth day of the cycle

Of the seventy specimens of endometrium examined, thirty corresponded to the time between the fourteenth and twenty eighth days of the cycle Without exception they showed the typical premenstrual hypertrophy of the secretory phase. In specimens removed before the fourteenth day there was no premenstrual hypertrophy

Shaw states that menstruation is the disintegration of a hypertrophied premenstrual endometrium in a cycle which is essentially o'ular. He thus differs from Corner, Hartmann, and Novak who postulate that cyclical uterine bleeding of any kind, whether o'ular or anovular and whether occurring in man or primates, may be called "menstruation" From a review of reports of anovular bleeding in the American literature Shaw concludes that almost all of the reports are valueless as the evidence is unreliable and the discussion uncritical

CHARLES BARON, M D

Lecloux, J, and Carez, C Menstrual Fever in Tuberculous Women (\ propos des fièvres menstruelles chez les femmes tuberculeuse) Rev belge d se med, 1933, v, 609

For a long time it has been known that women occasionally develop a slight elevation of temperature immediately before the onset of menstruation, and that in tuberculous women the elevation is considerably greater. In an article published in 1925, Leuret and Crussimon stated that they were able to determine the prognosis from the menstrual temperature curves. Their findings may be stated briefly as follors.

I Stabilized lesions The temperature curve is normal, that is to say, there is a premenstrual elevation of the temperature followed by a fall during the period of the menstrual flow. As the lesions tend to become arrested, the reaction becomes more feeble

2 Progressing lesions There is an increase in the amplitude of the thermic oscillations with an increase in the average temperature during the flow In some cases there is a postmenstrual reaction This always coincides with extension of the lesion

3 During a period of transition between amelioration and aggravation of the lesions (in either direction) there is a widely oscillating hyperthermia during the menstrual flow

Numerous authorities reject these findings or

interpret the temperature curves differently

This article is based on 300 cases and 871 menstrual periods The authors conclude that in tuberculosis the temperature shows exaggerated fluctuations during the menstrual period, and that the fluctuation is especially marked in patients with progressive lesions When the lesions are stabilized, menstruation seldom alters the temperature curve The degree of menstrual variation of the temperature varies directly with the rapidity with which the lesions are progressing. During treatment by rest alone or with pneumothorax a return to a normal temperature curve coincides with arrest of the lesion Improvement in the general health is not sufficient to bring the temperature curve to normal if lesions in the process of extension persist. Both the serious accidents usually associated with tuberculosis and the minor and major accidents associated with artificial pneumothorax occur most often at the onset of menstruation ALBERT F DE GROAT, M D

Thompson, W P Observations on the Possible Relation Between Agranulocytosis and Menstruation, With Further Studies on a Case of Cyclic Neutropænia New England J Med, 1934, ccx, 176

Of eighteen cases of agranulocy tosis studied by the author, the onset of the subjective symptoms of agranulocytosis occurred within one or two days of the onset of the regular menstrual period in seventeen. One or more recurrences of the agranulocytosis were observed in six of the eighteen cases and each recurrence appeared coincident with menstruation.

In two young women for whom frequent blood celt counts were made through a menstrual period a definite neutropenia occurred four or five days be fore the onset of menstruation There were no sub-picture symptoms associated with the neutropenia

A study of the excretion of the female set hor mone and prolan by a man of twenty five years whose record was well known in from the age of two and a half months revealed that at times he exercted an enormous amount of female set hormone and that there was an apparent fluctuation in the ovarian hormone dosely following the fluctuation in these hormones found by Frank and Goldberger in the hormones found by Frank and Goldberger in the court of the hornones found that have the set of the found of

The author concludes from his observations that in some cases of agranulocytosis a relationship be tween the hormones associated with menstruation and the neutronamia enisodes is noisable

1 I L SH M D

Jacks n II Jr Merrill D and Duane M Agranulocytic Anglina Associated with the Men trual Cycle Vew E gla d J Med 934

The authors report a case of agranulocytos s in which an intimate relation between the onset of menstruction and the recurrence of an attack was observed On the basis of Thompson s findings and the close relationship observed between menstrus tion and recurrence of the disease 2 c cm of Antin trin 5 were administered daily for ten days prior to menstruat on For the first time in eleven months the total polymorphonuclear neutrophiles showed a sharp rise the first day of menstruation and reached a level which was higher than at any time during the preceding seven months. Further observations were impo sible because the patient died of a severe infection of the upper respiratory tract. The authors believe that the result in this case although not con clus ve warrants further trials with the hormone A F LASH MD

Daniel C and Ma rodin D Genital Actin myco sis in the Fernale (Lact omyc e génitale de la femm ) Re fr ç d gy é i dobsi 934 i

temm | Re | r | c a gy e | c a cop | 934 | r

The authors give an extensive review of the

1 terature on genital actin my costs in the female and

abstracts of the histories of 60 of the 77 cases which

have been reported to date

The patients whose cases are reported in the literature ranged in age from fifteen to sixty four years but the majority were between theaty five and forty years the period of sexual matur (y. The puerperium also seems to be a period of incre sed susceptibility, although in some cases price ancy may act directly by he nging the organisms induced contact with the t sues or indirectly by causing tissue damage and providing conditional showards for the frech the provided the parasites? The effect

of occupation is seen in the greater incidence of the cond tion among field workers who come into contact with grain. The general state of health seems to be of little importance as most of the patients whose cases have been reported were women in seemingly good condition.

Accurate attaintiest evidence of the modence of gental actionnycosts is impossible to obtain as the condition is often unrecognized. In the authors of the care of adheral actionny costs was found in a series of 1 204 laparotomies. The condition is observed 36 times less frequently than utero adhesal tuberculoss. In contradistinction to gental tuber-culoss actionnycosts most frequently involves the overy. Next most commonly affected by it are the overy. Next most commonly affected by it are the critical services of the overy.

Primary genital actinomycosis has been reported only 6 times. Secondary genital involument is the most frequent type occurring in 67 of the 77 known

cases

It is generally conceded that the digestive tract is the most common point of origin primary lesions being present in the small intestine excema appearant and rectume Extension may table place either directly by way of pertionnel adhesions or Nathaman and the place of the control of the place of the plac

The macroscopic lesions of actinomycoss are characteristic wherever their location. The granula tions are present in colonies and develop according to 1 of 2 types of lesions a suppurative or neoplast type depending upon the reaction of the invaded tissues. Microscopic e am nation of the tissue is

necessary for diagnos s

The symptoms vary according to the location of the lesion In the majority of cases they are poorly defined but occasionally the peritoneal symptoms are of such severity as to resemble those of other acute inflammatory p ocesses. The onset when acute is accompanied by abdominal pain vomiting and fever In other cases some complication such as perforation of the urinary bladder may be the first sign The most constant symptom is pain which is chiefly abdominal and either constant or colicky Leucorrheea is almost always present Metrorrhagia is rare although menstrual di turb nees are fre quent The latter include amenorrhœa oligomenor, rhœa menorrhagia irregular menstruation and dysmenorrhora Diarrhora o constipation may be prese t n associat on w th comiting Dysuria with or w thout pyuna has been roted Temperature elevat n fl ctuating between 37 5 and 41 d grees C occ r in all cases

In spite of the indefin te character of the function al and general symptoms definite signs of actinomy cosis become manifest sooner or later Tumefactions of the excum or adness are then noted. The development of fistule is characteristic of advanced stages of the disorder. Laboratory examinations reveal the parasites in the pus. Cultures are difficult to obtain because of secondary infection. There is usually a pronounced leucocytosis, the white cell count ranging from 10,000 to 34,000. Secondary anomia is always present. The sedimentation time is increased.

In cases of closed actinomy costs the diagnosis is impossible. In open cases it is less difficult because of accessibility of the lesions and evidates.

Anatomical cure by medical or surgical treatment is possible but unusual. As a rule the condition extends to adjoining structures with the formation of internal and external fistulæ. Dissemination through the blood stream has been noted. Lymphatic extension is rare. Recurrences necessitate repeated removal. Secondary infection is common. Up to the present time there is no record of pregnancy following genital actinomy cosis. Pregnancy, labor, and lactation appear to aggravate the disease.

The prognosis of genital actinomycosis is extremely unfavorable. A definite cure has been obtained in only 7 cases and amelioration in only 4. In all of the other reported cases the condition was fatal. The immediate surgical mortality, even after

conservative operations, is high, and the late mortality is 80 per cent. While surgery is the ideal method of treatment, complete removal is seldom possible. Medical treatment with iodide preparations given internally and applied locally is an important phase of the treatment even when surgery is to be employed. In some cases foreign protein therapy and vaccinotherapy have been beneficial. Heliotherapy and radiotherapy are regarded by the authors as of questionable value although some gynecologists claim good results from their use.

HAROLD C. MACK, M. D.

Phillips, C H, and Douglass, M D Tumors of the Urethra Am J Obst & Gynec, 1934, xxx1, 99

Urethral caruncles of the vascular type tend to recur and may re appear as homangiomatous tumors which are locally malignant and difficult to eradicate. The presence of chronic infections or caruncles seems to be the precursor of urethral neoplasms.

Early diagnosis of carcinoma of the urethra is of the greatest importance because delayed operative treatment is extremely unsatisfactory

The treatment of choice is surgical excision followed by an adequate plastic procedure. Radium is difficult to apply and extremely likely to cause an incurable vesicovaginal fistula.

EDWARD L CORNELL, M D

## OBSTETRICS

# PREGNANCY AND ITS COMPLICATIONS

Dippel A L. The D ath of the Fetus in Ute o B II

The author reviews a series of Jos cases of intra A ne duting reviews a series of Jou cases of miles and feel death occurring between the thents ut the tetal neuth occurring neck cent the thems, eighth week of gestation and term. The incidence As t per cent Mentioned in order of decreasing frequency the most common causes were syph is tems a of pregnancy a loop of the cord atout a tain a or pregnancy a nonp or one court arous of fetal part intercurrent maternal di ease and trau The majority of the fetal deaths occurred some

the majority of the relative deaths occurred some weeks before estimated term and in 75 per cent of merks before estimated term and in 75 per cent of the Cases the fetus has retained up to it o neeks be the cases the tetus was retained up to it o neeks be fore term. The longest period of retention was sixty one days However when the death was due to tor one days from ever three are used to as a small of pregnancy spontaneous emptying of the auma of pregnancy spontaneous emptying of the labor was usually more rapi I

The author discusses the well known signs and The author vocusses the neuralional signs and symptoms of intravte me fetal death. He advises symptoms of interactic the retail ocality file advises induction of labor only when there is a complicating factor such as foxemia or the mother s mental con factor such as to venue or the mother's mental condition is d sturbed by knowledge of the death of the

Except when the letal death is due to s) philis or Except when the fetal next is one to s) punts on pephritis the chances of initia uterine death of the fetus in a subsequent pregnancy are appa entily not

icreused In the cases revieved the maternal morbid ty was an the cases reviewed with the morbidity of 17 75 per cent in general clinic case maternal deaths - 2 due to pulmonary complexitions

### HEYRY S ICKEY JR ND Snyder P F

rder P F The P longatt n of Pregnancy and Complications of Pa turition in th. Rabbit Computations of ka turition in the Rabbit Following the Induction of Oulation National Nation

In a series of 59 consecutive preparative street created at arrange stages of pregnances abbits status le classes of injustria So or extact of unifications. variative coses or intuiting 3 or extract or unne. Some of the animals aborted c mpletely on the second or third day after the treatment's me abort second of the litter and othe s neut on t postma turity and gave by the to typical postmature fetuse turity and gave of the to typical posimature feruse.

None of the rabb ts s. treated d liceted at term Abort on f the entire litte was mo e common in the Abort on 1 the entire little was not economou actor cases of the prim page and in every instance the cases on the prim paras and its every manages as a shortion occurred on the second or third day after

In the rabb t t is poss ble to p oduce n mal cor p ra lutea during p egnancy Th s was done by the

injection of the Antuitria S. In the animals that d d not about on the second or th d day after the in o a not about our the second of an to day after the in fection empt) ing of the prefus occurred fixen days after the injection The period of fiteen days coin cided with the life cycle of the corpus luteur as s coin

In normal tabbits a small dose of p tuitin at term as sufficient to induce lalor but in the series re versed a dose of pituting 1 000 times as great as viewed a dose of puturin r coo times as great as mornal would not induce labor if the inject on of Antonion S was given less than fifteen days before term. The efore the experimentally produced cor pora lutea inhibited even the act on of pituitin at Apparently reather overdistens on of the term apparently network overalistens on or the condition of the fetus played a part in the nducts n of labor

From these studies the author concludes that in the rabbit the retention of the fetus in the uterus is

the fations the recention of the series in the dieties in the diet Rao G T Gapa ity for Con eption the Course of Peg The Effect of Mast ctomy on th

nancy and Intolution of the Uterry Alt 1. Bellir ry (Ind) or dil ablas of dil mammil in sulla apacitat do no monento sull' data e ulla a luca per della per Uterus Aft r

From the study of the relationship between the From the study of the relationship between the manmary glands and the female genital organs many important observations have been reported With important observations have been reported the use of transplants of ovarian tissue Athas

the use of transpounts of oversan ussue or oversan and Sand were able to produce a defin to b) pertroph) of the breasts in male animals Calabro and Fantozzi found that ovarian hormones have a decided inhib tory offuence on lactation Dixon and others by subjecting factating animals to ovar c formy succeeded in increasing the secretion of milk. formy succeeded in nucleas of the secretion of employing mamman reacts nere able to produce marked at ophy of the

ovaries A number f investigators have been able overses a number 1 investigators make need and before and after puberty and in cast ated male and tenuce and after powerty and in cast after than le adults by means of foll cula h thomes The author study of the effect of mastectomy on

Conception p egnancy and the involution fitte tonceprion p equancy and the involution a time as made on three groups of rabbits—Group 1 (venty non peguant rabbits Croup; thenty-one pregnant rabbits and G oup; the rabbits of Group, 2 that went to term and ten

Gr up 1 neluded fon virgin rabb ts and ten adults which had previously given birth to one little of Ill were subjected to b! teral mastectom under lo al ang thesia and on the eighth post males

day were placed n a cage with no mai After four month two normal fem I s were

added to the eage for controls, and in the sixth month all of the animals were sacrificed

At necropsy, only the two controls were found pregnant. In six of the rabbits subjected to mastectomy both ovaries showed numerous cystic formations, and in all of them the adrenal glands were very much smaller than in the controls. Microscopic studies of the ovaries of the rabbits operated upon revealed atrophy, scarcity of mature or nearly mature follicles and corpora luter relatively numerous atretic follicles, and in many places degenerative changes in the primary follicles with alteration of the granulosa cells and cells of the ovum. In the uterus there was very little change in the muscular layers, but degenerative lesions were found in the mucosa and blood vessels.

Group 2 consisted of twelve rabbits in the first month of pregnancy and nine which were approximately fifteen days from term. These were subjected to must ectomy by the same technique. Nine of the twelve rabbits in the early stages of pregnancy aborted from ten to fitteen days after the operation, expelling dead fetuses. Two continued their pregnancy to term. The nine rabbits in the late stages of pregnancy went to term and gave birth to normal offspring. These rabbits were kept alive and in-

cluded in Group 3

Group 3 consisted of the animals in the preceding group that went to term and ten rabbits which were subjected to mastectomy after delivery. At necropsy, which was done at varying intervals of the puerperium, the pathological findings in the ovaries and adrenals corresponded quite closely to those in the other groups. In the uten, macroscopical and microscopical examinations showed that the process of involution y as retarded in both the animals operated upon during pregnancy and those mastectomized after delivery. Grossly, the uteri were large, edematous, and doughy in consistency. On microscopical examination the muscularis was found atonic and the blood vessels were seen to be dilated and filled with blood

The author draws the following conclusions

1 Extirpation of the mammary glands has a definite inhibitory effect on conception

2 Extirpation of the mammary glands early in pregnancy very often causes abortion

3 Extirpation of the mammary glands has a marked influence on the process of involution of the uterus after delivery

4 Although it is difficult to apply the findings in animals to human beings, it appears that the results in animals are not far removed from those that may obtain in the human female

GLORGE C TINOLA, M D

Gibberd, G. F. The Significance of Recurrence in the Late Toxemias of Pregnancy. J. Obst. & Gynac Brit. Emp., 1934, xli, 23

Nearly all clinicians agree that the late toxemias of pregnancy (albuminum and eclampsia) sometimes give rise to chronic nephritis and frequently

recur in subsequent pregnancies. However, there is disagreement in the interpretation of the facts

This article is based on ninety-one originally healthy vomen who were followed for from two to trelve years after the first attack of toxemia. Thirteen (14 per cent) developed chronic nephritis. In nine, this became evident after the first toxemic pregnancy, in two, after the second, and in two, after the third. Three of the women died from uramia.

Thirty-five (38 per cent) of these women had a recurrence of the toximia in a subsequent pregnancy, but were free from signs of permanent renal damage in the interval between the pregnancies Most of them had a toximia in all subsequent

pregnancies

Forty (44 per cent) had a number of subsequent pregnancies with no recurrence of the toxuma

The two major questions to be answered are

r What is the cause of the townia?

2 What is the cause of the recurrence of the toxemia in the group in which recurrence is a constant feature?

Gibberd claims that his theory of occult nephritis answers the second question although it does not explain the cause of the toxemia. He believes that the renal damage, which is manifested when the patient becomes pregnant again by recurrence of the toxemia, is occult nephritis

The factor determining recurrence must meet the

following requirements

I It must be acquired, since some women do not have a recurrence until late in their child-bearing life

2 Once acquired, it must be constantly present, since women having one recurrence tend subsequently to have others

3 It cannot be precisely the same factor as that responsible for the first toremia as there is a well defined group of women who, having one toremic pregnancy, subsequently show no tendency to develop a recurrence

Occult nephritis will satisfy all of these requirements. Evidence that the occult renal damage is caused by the first toxamia is the fact that recurrence can be favorably influenced by cutting short the length of the first toxamia by the induction of premature labor.

T From Bell, M D

McKelvey, J. L., and Turner, T. B. Syphilis and Pregnancy An Analysis of the Outcome of Pregnancy in Relation to Treatment in 943 Cases J. 1m. M. 1ss., 1934, cu., 503

The authors report a study of 943 pregnancies in syphilitic women with regard to the effect of antisyphilitic treatment on the outcome of the pregnancy, the occurrence of congenital syphilis in the offspring, and the relative value in the diagnosis of congenital syphilis of the Wassermann reaction of the blood of the umbilical cord, the histological structure of the placenta, and roentgen examination of the infant's bones for syphilitic epiphysitis

Of the cases in which the Wassermann reaction of the blood of the umbilical cord was negative, the infant was ron synhilitic in 86 per cent whereas of those in which this reaction was nositive the

infant was normal in only 18 6 per cent

Of the cases in which the placenta was normal on macroscope and microscop devamination the infant was non syphilitic in 20 0 per cent whereas of those in which the placenta showed suphilitic changes the infant was syphilitic in all but 12 1 per cent When both the Wassermann reaction of the blood of the umbilical cord and the condition of the placenta were considered togeth t the information obtained was of more val e than when only one of these factors was con idered alone

Infants presenting roentgen evidence of suphilitie en phy this invariably exhibited other evidences of consental synthis. However of the infants show ing no bnormalities on roentgen examination 20 5 per cent were subsequently shown to have The triking beneficial effect of antenatal ars-

congenital syphils

phenamine therapy is shown by the fact that onl 5.1 1 per cent of the infants of untreated syphilitic mothers were born alive and 62 5 per cent of these were synhilitie whereas when as little as I gm or less of ar-phenamine was administered on per cent of the infants were born al ve and o Av 7 per cent were syphilitic. The administration of la ger amounts of arsphenamine or related products brought about a further reduction in the fetal mortality and in the inciden e of syphilis in the off spring. In cases in which as much as a gm (from 12 to 14 injections) was gi en none of the infants was syr hibite. The administration of heavy metals m reury or biamuth compo nds in a ldition to arspheramin vielded better results than the admin, tration of arsphenamire alone Better results were obtained also when the treatment of the mother as started in the first half of pregnancy than when it was be un in the latter half However it was found particularly important to give the arsenicals in the two mo the immediately preced ag delivery

In the cases of wom n who were treated before pregnancy and not during pregnancy the results were in general quite as good as those obtained when the noman was treated only during pregrancy Honever the status of the syphilitic infection in the mother was probably the important factor Inti syphilitic treatment both before and during preg nancy yielded results superior to those obtained by treatment during either period alon

RO LAND M FE TRA D M D

Maes U Boyce I F and McFetridge E M Surgical Consid ration of Appendicitis in Pregnancy Am J Ob ! & Cyne 1934 It 1 2 4

Appendicitis as a complication of pregnancy is particularly likely to recur f there has b h a h s tory of previous attacks. The pathological changes are probably no more senou than in the non pregnant state but because of anatomical and this sological factors may become severe and fatal if surgical treatment is not given p omptly

Abortion increases the mother's risk but occurs because of the disease and not beca se of the sure ry instituted to r heve it The fetal mortality is high The maternal mortality depends on the tage of the pregnancy and the eventy of the disease When the disease is mild it is little higher than in the non Dregnant state

Diagnosis late in pregnancy is complicated by the various factors introduced by pregnancy and is almost entirely a choical problem. In the diff rential

diagnosis the chief wifficulty is presented by avelitis I rompt operation is indicated as soon as the con dition is diagnosed or reasonable suspected and should be performed throughout according to sound surgical principles Delivery should be according to obstetrical indications Proper precautions during the immediate po toperative period may p event abortion or premature labor

In fifty cases reviewed by the authors there was only one death that of a woman in the third in tnester of pregnancy who had a pereralized perton tis with subsequent phiebitis of the pelvic veins Forty five of the fifty patients were operated upon before the cond tion became serious

Chasen I. COR THE M D.

#### LABOR AND ITS COMPLICATIONS

Merger R Late Casarean Section The Indica tions for Operative Intervention Conduct of the T st of Labor /La césamenne tard e Les des procéd s pératos es Coudu te à tent a dutravail) Greef fob ! sait xt 1 664

The decr ion for or against delivery by the 2b dominal route during labor is extremely difficult to make in borderline cases. It is a nally based on an evaluation of the chimcal sign of n obable or potential infection and as there; no constant par liel ism between such clinical signs and the virulence of the bacteria there can be no abrolute certainty as to the proper procedure. The procedures used are

the efore based entir is upon prolabilit

The author d s ribes the following 4 degrees of infection during labor and gives his preference for treatm nt in each (s) infection not evident but possible (2) infection not evident but probable (3; unfe to a evident but apparently not se ere and (4) infection evident and severe. In the 2 latter types there a usually I ttle difficulty in arm ring at a de son. In se ere cases complete hysterectoms is the or I treatment. In les severe cases exterio La tion of the ute us after the classi al casa can sect on (Portes operation) may be performed especially if the patient is a young prim para or a noman without living hildren

The first 2 types of infection require great c to in the determinati n of the indications for and the management fihe test of l bor e pe sally in bo der his ca es of pelvic contract on to bred rules can be laid down as all of the following i ctor must b

s Static factors In ase of funnel and generally contracted p lys the test of labor should be less prolonged than in cases in which the pelvis is of the flat type. The size and condition of the fetus must also be taken into consideration. In cases of large fetus, lack of engagement, and over-riding of the head undue prolongation of the test of labor must be avoided. When the fetus is believed to be damaged castrean section should be avoided if

2 Dynamic factors When engagement fails to take place in the presence of good uterine contractions, casarean section should not be delayed

unduly

The effect of labor on the over-riding head, the relation of the head to the lower segment of the uterus, the advance and position of the presenting part, and the condition of the bag of waters. These factors must be considered carefully during the test of labor Since rupture of the membranes is the critical point in the determination of the prognosis of the test of labor, this phase must be carefully watched In cases of early rupture of the membranes, cresarean section is indicated when, after effective uterine contractions, the unengaged head fails to advance, does not accommodate itself to the lower uterine segment, or the cervix fails to dilate In cases of cervical dystocia, spasmalgine (opium and belladonna) often gives good results procedure in the presence of unruptured membranes is debritable Artificial rupture is indicated especially when dilatation is complete and should be followed by the injection of 1/3 c cm extract of the posterior lobe of the pituitary gland to stimulate The performance of low cervical contractions cæsarean section when advance of the head has failed to occur even after rupture of the membranes has never resulted fatally in the author's experience

Merger reviews the abdominal crearean sections performed at the Maternité de la Pitié in the period from January 1, 1927, to December 31, 1932 Hysterectomy after cresarean section in 26 cases had a maternal and fetal mortality of 15 per cent Conservative cosarean section performed in 212 cases had a maternal mortality of 3 2 per cent Of 92 cases in which crearean section was done after a test of labor there were 2 deaths, a mortality of 2 per cent One of the deaths was due to operative shock and the other to infection In 108 cases, including cases in which exsarean section was done after the test of labor and emergency cases in which the operation was done late in labor, there were 3 deaths, a mortality of 27 per cent The author concludes that the results prove that at the Maternité de la Pitie the test of labor is carried out on the basis of the proper indications HAPOLD C MACK, M D

#### PUERPERIUM AND ITS COMPLICATIONS

A Study of Immunity to Hæmolytic Streptococci in Puerperal Infection J Obst & Gynæc Brit Emp , 1934, 7h, 12

A number of strains of streptococci derived from cases of puerperal sepsis were studied with regard to

their toxin production, and sera from the patients were studied with regard to their bacteriotropic power and their ability to increase the bactericidal

power of normal blood

Two of seven strains showed toxic production. It was demonstrated experimentally that sera from patients infected with these toxin-producing hæmo-Is tic streptococci somewhat increased the bactericidal power of normal blood. These sera also protected mice against doses of the same toxin-producing streptococci which were beyond the maximum lethal dose for mice

In experiments in which rabbits were immunized with sterile whole cultures of toxin-producing strains, the sera acted similarly to the sera in the previous experiments and this phenomenon was observed only when the toxin-producing strains were employed

The antigen used in the rabbits was shown to contain virulent streptococci and toxin. Therefore the serum contained both antibacterial and antitoxic

properties

The findings of these experiments may possibly explain the beneficial effect of transfusions from patients convalescent from puerperal sepsis to patients suffering from puerperal sepsis and of small transfusions when the infective organism is a toxinproducing hemolytic streptococcus

W R PRIMER, MD

koff, N Curettage of the Puerperal Uterus Containing Placental Débris in Infected Cases Markoff, N (Du curetage des uterus puerpéraux contenant des debris placentaires, dans les cas infectes) franç de ginée et d'obst, 1933, xxiii, 992

This article is a discussion of the active versus the inactive management of infections of the puerperal uterus containing placental fragments. Some obstetricians advocate surgical removal of retained secundines in the presence of infection by curettage or digital removal whereas others, fearing the dangers of uterine perforation and bacterial dissemination, advise expectant treatment. The author, who belongs to the first group, reports on 348 cases of retained secundines which were treated by curettage

Of the 71 cases in this series in which infection was definitely indicated by a temperature of from 38 to 39 degrees, death occurred in 7 (9 8 per cent) In the remaining 277 cases, in which the temperature was normal or subnormal, there were no deaths The mortality in the entire number of cases was 2 per cent The histories of the 71 cases with infection are

recorded briefly

In the majority of the cases with infection the curettage was done between the fifth and tenth days after delivery In some cases, however, it was done on the first day after delivery because of urgency of the symptoms, and in others as late as the thirtieth day Of the 7 fatal cases, it was done on the third day in 2, and on the second, sixth, seventh, eighth, and sixteenth days in 1 each

While the author believes that in general late curettage offers the most favorable results he states that early intervention is necessary when infection is associated with severe hamorrhage. As placental fragments become firmly adhrent by fibrinous evudate after the first week early removal is usually less difficult and dancerous than late removal.

At the author's clinic cases of infected abortion are also treated actively when the infection has not extended beyond the uterus. In 537 cases reported by Soukhanoff the mortality was 3 per cent

There is no strict parallelism between the elevation of the temperature and the varidance of the infection but the author cautions against curettage in the presence of high feer. While he admits that hysterectomy might have prevented the 7 deaths which occurred after curettage in his cases he posts out that statistics on treatment by hysterectomy shot a much higher mortality rate than occurred in his cases. Non fatal complications were noted in only a instances and the majority of the patients were d scharged from the hospital from six to tendays after the operation.

The amount of hamorrhage from retained fragments of the placenta bears no d rect relationship to the size of the fragments as small pieces fremently cause more bleeding than larger ones Postpartum hamorrhage is rarely due to subinvolution. In most cases in which it is attributed to submisolation it is due to retained fragments of placents. Because of the lack of tomoty of the uterme musculature curettage of the uterus is more difficult after de livery than in the non puerperal state. It should be done only by a trained gynecologist for when it is improperly performed perforation may result or fragments may be overlooked Irrigation of the uterine cavity with tincture of jodine after curettage is said to increase the tone of the uterus and a d in d sinfection. Curettage is contra indicated when the infection has spread beyond the uterine cavity to the parametrium adnesa or peritoneum

The author is convinced that active management by curettage is greatly superior to conservative management and also gives better results than rad ical treatment by histerectomy.

HAROLD C M CK MD

## GENITO-URINARY SURGERY

### ADRENAL, KIDNEY, AND URETER

Castronovo, E, and Baroni, B A Contribution on the Hydromechanical Pyelorenal Phenomena in Ascending Pyelography (Contributo alla conoscenza dei fenomeni idromeccanici pielorenali nella pielografia ascendente) Ann ital di chir, 1933, 111, 965

In a study of the hydromechanics of the kidney in ascending pyelography the authors exteriorized the ureters of dogs and injected an opaque solution such as lithium iodide, uroselectan, B abrodil, perabrodil, pielofanina, or torofanina at various pressures and over various periods of time

When the solution was injected at a pressure below the secretory pressure of the kidney over a long period of time, the pyelograms showed a reflux from the pelvis into the interstitial tissue lymphatics and tubules. This occurred when lithium iodide, uroselectan, abrodil, and pielofanina were used

When the injection was made under a pressure slightly above the secretory pressure of the kidney and continued over a short period of time, the pyelograms showed a pyelo-interstitial, lymphatic, and pyelotubular reflux. The same result was produced with all of the solutions except torofanina When the latter was used, no evidence of a reflux was noted.

When the injection was made under a pressure well above the secretory pressure of the kidney, the pyelograms showed a pyelovenous and pyelotubular reflux with diffusion into the cortex and subcapsular collections of the opaque solution. All of the solutions gave the same result, but some produced more distinct evidence of reflux than others.

PETER A Rosi, M D

Ribbing, S An Overlooked Source of Error in the Interpretation of Pyelograms (Une source d'erreurs négligée dans l'interpretation des pyélographies) Acta radiol, 1933, xiv, 545

The author calls attention to the fact that the contrast fluids used for retrograde pyelography mixes with the urine only with difficulty By means of pyelograms he shows that they sink to the bottom of the renal pelvis and are covered by the urine He emphasizes, therefore, that for the avoidance of error the patient should be X-rayed in several positions

Husfeldt, E, and Aalkjaer, V Maclean's Urea-Concentration Test in Cases of Surgical Kidney Sufferings Acta chirurg Scand, 1934, lvin, 399

The discussion of Maclean's urea-concentration test is preceded by a brief review of the unilateral kidney tests most generally used, the results ob-

tained with them, and the sources of error attached to them. In the Maclean test, 15 gm of urea in 100 gm of water are given by mouth after a twelve hours' thirst and the urea concentration in the urine from the bladder and ureter is determined at the end of one and a half hours. The authors have used this test in the cases of thirty-five patients with surgical conditions of the kidney—six with tuberculosis, four with tumor, 15 with nephrolithiasis, five with unlateral pyonephrosis, one with renal abscess, and four with hydronephrosis. Nineteen of the patients had been subjected to nephrectomy

The advantages and sources of error of the test are

discussed in detail

Of twenty-six sound Lidneys in the cases reviewed, twenty-four showed normal function (concentration 2 per cent or more) and the remaining two showed only a slight reduction from the normal which was

explained by reflex polyuria

Of the nineteen cases in which nephrectomy had been performed, the function of the remaining kidney was normal in sixteen and almost normal (concentration 19 per cent) in two. In one, the concentration was 16 per cent because the kidney contained two calculi the size of peas. Even in this case, however, the nephrectomy was uncomplicated. One patient with normal function of the remaining kidney died from postoperative uræmia evidently due to an ascending infection of the kidney.

In conclusion the authors discuss the results of the

Maclean test in special groups of diseases

Lupacciolu, G Pyelo-Ureteral Dyskinesias and Malformations of the Vertebral Column (Discinesei pieloureterali e malformazioni della colonna vertebrale) Radiol med , 1934, 121, 1

Lupacciolu discusses the theory of Nuvoli and Impiombato that in many cases with symptoms of renal calculus in which no calculus can be demonstrated the symptoms are due to spastic and dvskinetic phenomena produced by congenital malformation of the vertebral column. He believes that this theory merits consideration by roentgenologists and urologists because it seems to be supported by considerable evidence in the literature.

Of 350 cases studied in the Ospedale del Littorio, malformations of the spine such as lumbarization, sacralization, rachitis, supranumerary vertebræ, deformity of the sacrum were found in 226 Of the latter group, malformation of the kidneys was found in 6, renal tuberculosis in 4, and evidence of calculosis in 28 In almost all of the cases in which pyelography was carried out, the examination revealed a functional disturbance of the urinary system such as spasms, dilatations, or abnormal motitity Of the 124 cases without malformations of the

spine renal malformation was found in 2 renal tuber culosis in 1 and ev dence of calcul in 8. In 15 cases the symptoms were found to have no relationship to the urman tract being due to a condition such as app ndicitis or cholecystitis. In more than half the pain was due to vertebral arthritis or radiculitis The author reports 10 of the most interesting cases in detail

LUGENE T LEDDY M D

T D ; Ve ICO UPETERAL REBILIX SIL REGILIX SIL REGILIX SECULOS SE 1] Rep. 1 de S P 10 1933 1 168 Ve ico Ureteral Reflux in Renal

The author emphasizes the frequency of vesico Ane agenus emphasizes the arequency of ventor ireteral reflux in renal tuberculosis in general and after operation and the g eat p actical importance of its recognition for the avoidance of diagnostic or its recognition for the avoidance of magnosia-errors Confusion arises particularly in unilateral cases with a considerable backwash on the normal side In fact the reflux s found oftener on the sound side than on the diseased side Hibere deals especially with regurgitation as the mechanism of in fection of the second Lidney Hereports three cases of vesico ureteral reflux in renal tuberculosis. Two of them were moperable. The third showed a late per sistent reflux after nephrectomy Delayed post operative reflux is quite frequent and demonstrates that nephrectomy does not all ass present in fection of the other kidney If reflux occurs before the operation greater precautions must be taken in all examinations and the patient must be kept under observation after the operation The best means of protecting the second kidney is early removal of the

The article is supplemented by roentgenograms and a bibliography

G cenberg B E B odny M L and Robins S A M F MORSE M D S litary Cysts of the kidn y 1m J S & 934

The authors review the literature on solitary Cysts of the kidney and discuss the theories regarding the formation of these cysts their ethology their in cidence the \ ray findings co et sting pathological lesions and the methods of pre-operative diagnosis They cite particularly Carson's summation of present day theories. The latter ascribes the cysts to (1) embry onal rest (1) fa lure of union between the glomeruli and collecting tubules and (3) blocking of the tubules by fibrous t ssue

Intravenous urography is much more liable to assist in the diagnosis than retrograde pyelography

In many cases ther pathological lesions are present The autho s repo t ten cases ELMER HESS M D

Simp n G Cacnoma of the kid ey B i J

The autho belie occurs more frequently than the hterature indicates that ca cinoma of the kidney and that the classification of renal glowths into those of the hyperneph ma o G a itz type and those of the embryoma or Wilms type is misleading He reports fou cas s of enal carcinoma. The most

important signs in these cases were severe and con stant pain in the back which was unaffected by exercise the occurrence of hematuria at some time during the illness collapse of one or more of the dumbar vertebra which was evident in the roent genograms paraplegia and early cachesia Re peated attempts to palpate the kidneys were un successful except in one case

C) stoscopic examination at the time of bleeding will reveal the source of the harmorrhage. In the win reveal the source of the memorrhage in the function is of great value Bilateral pyclograms may be misleading. As even in late cases there may be

ep I tile deformity an early disgnosis may be very diff cult Excretion urography may prove to be of When an exploratory incision is made in early cases the kidney may appear normal. The author cases the armey may appear mormat the authors split several kidneys and examined the surfaces fo growths The method is unsatisfactory because of harmorrhage large infarcts and the possiblity of missing a small tumor in another part of the k dney The radical procedure for painless hamatura is nephrectomy While many kidness may have been

sacrificed needlessly early lesions were found in The author reports a case in which nephrectomy performed seven days after the first onset of hama turna revealed a sarcoma and death occurred several months later from secondary abdominal growths

CLAUDE D PICKRELL MD

## BLADDER URETHRA AND PENIS

Herbst R H Urography as a Guide to S rgical Indications of Di erticula of the Urinary Blad der J Am M At 1934 Cu 188

Herbst classifies diverticula of the un ary bladder into (1) large neck non retention diverticula and ( ) small neck retention diverticula. In ordinary p ostatic h) pertrophy small neck retention divert c ula are rare and the large neck non retention d ver ticula are found most often The powerful contrac tions of the small thick walled bladder stimulated by infection causes severe intracystic pressure which may result in the formation of small or fice retent on di erticula This condition is most commonly asso c ated with fibrosis or bar formation at the bladder neck In simple hypertrophy of the prostate the ob struction and retention de lop fast resulting in comparatively rapid dilatation and thinning out of the bladder wall The strain on weak areas in the bladder wall is less and diverticula when found a e usually of the large neck type

Early correction of the milder forms of bladder neck obst uction such as fibrosis and median bar may pre ent the format on of diverticula For a g od functional result all retention divert cula must be removed A n retention divert cula of small or moderate size do not require surgical attack other than correction of the obstruction at the bladder

THEOPHIL P G AUER M D

Washburn, V D The Treatment of Aniline Tumors of the Urinary Bladder J Urol , 1934, 1815, 1855

The author states that when an aniline tumor of the bladder is small and benign in appearance, he does a biopsy and follows it by fulguration at the same sitting without awaiting the pathological report For all bladder tumors except those that are small, accessible, and of Grades 1 and 2, the treatment of choice is the implantation of gold radon seeds through an open bladder incision. The seeds represent about 15 mc each and are implanted at distances of 1 cm The author treats sessile and submucous tumors by implantation only. In cases of papillary and larger necrotic tumors the treatment consists in removal of the neoplasm by means of the electric current or by twisting it off with a sponge forceps, implantation of the base of the tumor with radon seeds, and cauterization. In order to apply a sufficient number of seeds, the size and number of the tumors must be known definitely The author sutures the bladder wall snugly around a No 22 I soft rubber catheter and a cigarette drain placed in the prevesical space. The catheter and drain are removed not later than the fourth postoperative day

Twenty-three cases of aniline tumors of the bladder are reported. All of the patients were men engaged in the manufacture of divestuffs. In eleven cases of single tumor and seven of multiple tumors the treatment consisted of cystoscopic fulguration with the bipolar current. In five cases open operation was done. Two of the latter were cases of single tumor, and three were cases of multiple tumors. One of the single tumors was of Grade 3 and the other of Grade 4. In one of the three cases of multiple tumors the neoplasms were of Grade 3, in one they were of Grade 4, and in one they were clinically malignant but unfavorable for biopsy. There was no mortality.

## Flocks, R H The Roentgen Visualization of the Posterior Urethra J Urol , 1933, XX, 711

Flocks describes a method for the roentgenological study of the male urethra and bladder which is based on the use of (1) a contrast medium—lipiodol mixed with water and a lubricating jelly, (2) the oblique position for study of the prostatic urethra and the neck of the bladder—the pelvis at an angle of 45 degrees with the horizontal, the left thigh extended, and the right thigh flexed about 45 degrees, and (3) the principle of double contrast for simultaneous visualization of the prostate and prostatic urethra—a combination air cystogram and opaque urethrogram

The findings of the method in the cases of normal males of different ages and in cases of stricture of the urethra, periurethral abscess, prostatic abscess, cord bladder, contracture of the neck of the bladder, and benign and malignant enlargements of the prostate, and the use of the method in the study of the results of prostatectomy and prostatic resection are shown by illustrations

The cysto-urethrograms of prostatic enlargements are interpreted briefly on the basis of the clinical and cystoscopic findings and the results of the operative procedures. The author states that, by the use of the cysto-urethrogram, it is possible to determine the nature of an anatomical deformity in the prostatic urethra and at the bladder neck quite accurately. Trank M Cochems, M D

Moller, W. Mihar, Tuberculosis After Sounding of a Tuberculous Stricture of the Urethra (Mihartuberl ulose nach Sondierung bei tuberkuloeser Urethrastriktur). Acta chirurg Scand, 1934, lxxii, 507

The author reports two cases of renal tuberculosis and tuberculous stricture of the urethra in which a fatal miliary tuberculosis developed immediately after intra-urethral treatment. In one case the latter consisted of catheterization, and in the other of sounding As there were no signs of urethral tuberculosis in these cases, the author emphasizes the importance of considering the possibility of miliary tuberculosis in all cases of renal tuberculosis before sounding or cystoscopic examination is undertaken In cases in which careful catheterization suggests the presence of urethral tuberculosis, intraurethral manipulations with firm instruments should be avoided and the local condition should be investigated by intravenous pyelography. Only in cases in which secretory urography also fails should free exploration of the kidney or cystoscopic examination be attempted

#### GENITAL ORGANS

Coutts, W E Genito-Ano-Rectal Lymphogranulomatosis of the Male Ann Surg, 1934, vciv, 188

The author reports a study of seven cases of genito-ano-rectal lymphogranulomatosis in the male The etiology of the condition is obscure The opinion that syphilis, tuberculosis, or gonorrhæa may be the causative factor is now known to be incorrect. Two types of the condition are recognized. In one, the syndrome begins with the appearance in the lower perineum of abscesses and fistulæ which are not related to the urethra, and the anorectal symptoms do not develop until several vears later In the other, the fistule appear when the rectal stricture is already established and can be diagnosed by simple rectal examination. The site of penetration of the virus is apparently different in the two forms In the first form it is probably the posterior urethra, and in the second, the anus or rectum All but one of the author's seven patients were under thirty years of age The prognosis of the condition is very uncertain HENRY L SANFORD, M D

Johnston, R. L. Studies in the Physiology of the Prostate Gland Endocrinology, 1934, XVIII, 123

Johnston reports studies made on the prostate gland and testicles of rats and dogs to determine the

effects of radium emanation and rountgen irradiation on the histological structure and hormonal relations of these organs The average weight of the testicles of white rats was reduced 42 per cent by 0 2 mc. of radon left in the scrotum for six weeks. Dos s of 6 8 and 10 mc of radon in the prostates of dogs reduced the circumference of the prostate 22 22 and 19 per cent in twenty two thirty five and forty-one days respectively by necrosis contiguous to the source Lesticles irradiated with from 800 to 2 000 f units sho ved profound injury of the tubular epithe hum When 2 000 r units were used the destruction was almost complete. The corresponding prostatic enthelium showed no change. Fertility was de creased by irradiation of the testicles but not by trradiation of the prostate

In studies of the effect of Antuitrin S Johnston found that there was usually a moderate increase in the size of the testicle and always a very marked increase in the size of the accessory sex glands. Very heavy roentgen doses to the testicles of dors failed to produce castration effects on the prostate gland a fast showing that the testicles so treated maintained their hormonal function Frank M Cocnesis M D

#### Harris S II Prostatectomy with Closure Fi e Years Experience Br t J S rg 1934 xtl 434

The author reviews 171 prostatectomies per formed by him in the five year period ending October 1032 In 356 of these cases primary closure was done after the prostatectomy Suprapubic drainage was left in only to There were to deaths a mortal ty of slightly less than 2 7 per cent. In only 3 of the cases of primary closure was re-opening of the bladder necessary. In one of the latter cystostomy was done on the seventh day on account of incomplete drain age due to a faulty catheter. In another cystostomy and blood transfusion were necessitated by a severe hæmorrhage occurring immediately after the pros tatectomy In the third the tip of the catheter found its way through the bladder incision and on the seventh day the bladder was opened the catheter readjusted and the pre esical space drained

The technique of the suprapubic operation and the instruments used for it are described in detail The e sential features of the operat on are immediate control of harmorrhage by Suture re formation of the prostatic grethra with obliteration of the prostatic cavity and immediate closure of the bladder and abdominal wound THEORE LP GR. CE M.D.

#### Monaco B Sutu e of the Vas Deferens (S to a da def ent ) 1 tal d h 9.13

Accidental injury to the was deferens-complete severance or crushing with a clamp -is not an un common occu rence during operations especially those performed n the inguinal region. The early treatment of such injuries by simple approximation of the ends witho t sutu e or by simple suture of the ends w thout the use of a special technique led al most in analy t occl s on of the lumen

In experiments on ten dogs. Monaco se ered the vas deferens and then repaired it by end to-end approximation with splinting by mean of a short piece of heavy catgut bridging the section and main tenance of the approximation by two laterally placed catgut sutures v hich did not penetrate the entire wall of the vas deferens. After varying periods of time the dogs were sacrificed and the vas deferens were examined roentgenologically and h stologically

In one dog a diverticulum and in two dogs a dilatation of the lumen was found at the point of section One dog studied b ologically and carefully controlled was found to have a pervious vas deferens which transmitted living spermatozoa one hundred and ten days after the operation Obliteration of the lumen occurred in only one case and in this instance was due to angulation of the site of section Histological e amination showed that the elastic tissue re appeared early but the muscle tissue was not replaced up to ninety days after the operation

A LOUIS ROIND

Dodrzanieki W Roentgenography and Rad di gno is of the Male C nital Tract-1880 Epididymo-lesiculography An E pe iment ! and Clinical Study (Radi raphie di most c des voies génitales ma c lines — aso ép didymo-vé cul grapho. Li de e pénim ni le et 933 11 43 e n que) J de ch

The recent development of substances opaque to the \ rays and moffens ve to tissues has remitted the extension of roentgenographic techniq e to organs hitherto considered maccessible. For some reason however the male genital tract has been neglected In this article the author presents the results of his experience in this feld. His mater Im cluded dogs surgical specimens cadavers and pa

The opaque solution employed was thorotrast This is a viscid fluid with a 25 per cent content of thorium hydroxide in colloidal suspension. It has the advantage of not being precipitated by organic material

In the dog excellent roentgenograms of the epididym s were obtained by injections through the vas Histological examinations sho ed no daria e to the epithelium

Studies of human material were first made it testicles removed at operation. The images differ entiated abscesses limited to the epididym's from those involving the testicle

In the interpretation of roentgenograms of the erunal vesicl's the normal anatomical variatio must be taken into account. Ticker di ting i hes five types based upon the length and t rt osity of the principal duct its relation to the lateral fucts and the number and size of the diverticula bladder causes the sicles to descend in sel ti n to the pubis and a large prostate causes them t ascend

The seminal se icles may be injected by cathe tenzation of the ejaculatory ducts or by puncture of the vas The first method is of little practical value because it cannot be performed consistently even by the most expert operators. Employing the second method, the author injects the thorotrast into the lumen of the isolated vas by means of a fine needle. Three or four cubic centimeters are injected in the direction of the seminal vesicle and from 2 to 2½ c cm toward the epiddymis. Sometimes the quantity must be increased, depending upon the nature of the lesions present. The roentgenograms are taken immediately. To obtain the sharpest possible images it is best to roentgenograph, the two sides separately.

In tuberculosis of the seminal vesicles the changes are very clear even when the organs are normal to palpation. The shadows of the diverticula are rounded, producing a shotty aspect. Cavities appear

as large pouches with hazy outlines

Roentgenograms of the epididymis are of value in determining the extent of a tuberculous process. When epididymectomy is contemplated, it is possible to determine with a fair degree of certainty whether or not the testicle can be preserved.

The author has found that in epididymitis the most extensive lesions are always in the tail

Injections into the tunics of the testicles were attempted, but no findings of value were obtained

The article contains twenty-three roentgenograms

Albert F De Groat, M D

Hellner, H Local Circulatory Disturbances of the Testicle (Die oertlichen Kreislaufstoerungen des Hodens) Beitr z klin Chir, 1933, clviii, 225

The changes caused by disturbances of the blood supply of the testicle must be classed as atrophies and necroses. Necrosis of the testicle is considered an anæmic necrosis or a hæmorrhagic infarction. Both conditions may occur as the result of direct or indirect occlusion of the vessels. Necrosis does not permit recovery, but atrophy is reversible up to the last degree and may be followed by recovery and new formation of spermatic cells. Only when the entire spermatic cell layer, including the Sertoli cells, is dead is recovery from atrophy impossible. Under these conditions fibrosis of the testicle occurs and the seminiferous tubules are obliterated by connective tissue.

To determine the effects of various types of circultory disturbances on the testicles the author carried out a large number of experiments on dogs. He found that complete interruption of the circulation in the spermatic cord caused complete destruction of the testicle within from four to six hours.

Venous obstruction does not cause noteworthy strophy In a child, torsion of the cord of 180 degrees which resulted in venous obstruction did not cause

serious damage

Ligation of the internal spermatic artery is not always followed by necrosis, but may result in a moderate degree of atrophy Great care is necessary in ligation of the internal spermatic artery as often the internal spermatic veins are ligated

Ligation of the internal spermatic vessels causes severe atrophy followed by fibrosis of the testicle and even necroses. That the severe injury of the testicle from ligation or occlusion of the internal spermatic vessels which was observed in the dog occurs also in man, is evidenced by clinical observations of so-called spontaneous degeneration of normal testicles. In cases of thrombosis of the spermatic cord and therefore complete obstruction of the circulation of the testicle, treatment leading to recovery is impossible.

The author carried out a large number of torsion experiments on dogs to confirm experimentally the occasional clinical observation that recovery of the testicle is possible if the torsion does not exist too long He found that every unrelieved torsion causes fibrotic atrophy of the testicle Complete torsion of 360 degrees does not necessarily lead to complete circulatory occlusion resulting in hopeless necrosis in from four to six hours. Therefore its treatment should vary According to the experiments, complete torsion of the testicle relieved within twelve hours is compatible with recovery of the This finding is confirmed by about half a dozen clinical observations. It is necessary to make the diagnosis of torsion early. This is easy if the clinical picture of the condition is known, but unfortunately the clinical picture is often confused with that of acute orchitis, especially in the cases of children Only early operation will save the testicle It is not always necessary to remove a twisted testicle immediately on the assumption that it will become necrotic

Stelle, C W Teratoma Testis Fifteen Cases Studied Microscopically and Biologically Arch Surg, 1934, XXVIII, 1

Stelle reports fifteen cases of malignant tumor of the testicle and gives a brief review of the literature on such tumors In all of his cases the neoplasm was an embryonal adenocarcinoma of teratomatous origin Stevens, Ewing, and Bell have reported adult teratomata of the testicle

In all of Stelle's cases in which either the original tumor or an active metastasis was present Prolan A could be detected in the urine by the method of Aschheim and Zondek. Stelle stresses the importance of the demonstration of Prolan A in the urine, especially in the diagnosis of metastases. He states that teratoma of the testicle is relatively radiosensitive, and the best method of treating it is surgical intervention supplemented by external irradiation.

Frank M. Cochems, M. D.

#### MISCELLANEOUS

Campbell, M F Chronic Pyuria in Juveniles J Urol, 1934, xxxi, 205

Pyuria which persists longer than four weeks is considered chronic. In juveniles its causes are the same as in adults. The most frequent causes are lesions producing stasis. The author reviews 402

cases-those of 292 girls and 110 boys ranging in age from th ee month's to fifteen years

The diagnoses with which the patients entered the hospital were chronic pyelitis enuresis renal stone renal tuberculosis and cystitis

Many of the renal infections were hamatogenous although ascend ug infection is common in female children The focal infections d sco ered on general

physical examination were numerous but respira-tory infections were most common Malnutrition and anæmia were found in 178 cases The colon typhoid group of bacteria were present

in 104 cases staphylococci in 143 streptococci in 43 and various other types in the remainder The chief renal changes were those of chronic interstitial suppurative pyelonephritis. In addition there were changes caused by stasss stone and other local le ions The changes in the rest of the urina y tract were dependent on infection and the primary lesion The diagnosis requires a careful general and local

examin tion Urinalys s 1 very important. In the cases of males urine voded after careful local cleansing and in the cases of females catheterized urine should be exam ned Pus blood and bacteria

are of chief importance After making the diagnosis the author gives a t o weeks c urse of intensive medical treatment. This includes measures to el minate focal infection and the administration of methenamine combined with am monium chloride From 10 to 12 5 gr of methena

mine are given a day at intervals. In the cases of children older than three years the ketogenic diet may be used

At the end of the toweeks of medical treatment a plain roentgenogram of the urinary tract is made Cystography intravenous urography and tests of hidney function follow If a diagnosis cannot be made by these measure cystoscopy is necessary Inspection of the urethra and bladder ureteral catheterization tests of kidney function with in digocarmine and retrograde pyelography are done as indicated General local or caudal anæsthesia is

used The treatment is based on the cause of the condition. The surgical procedures are the same as for adults Iuveniles stand major urol g cal surgery better than ad Its Postoperative acidosis is danger ous An increased fluid intake and numerous blood transfus ons are indicated Blood transf sions are invaluable in surgical shock. In very young children hæmorrhage is of more importance than i fection whereas in older children the reverse is usually true Negative cultures are of greater importance than a clear urine

In the cases reviewed there were 22 deaths from urinary disease and 19 f om other causes. Twenty one children d ed from contagious diseases Fighty two were cured 192 vere benefited 32 were not benefited and 36 cannot be traced

CLAUDE D PICKRELL M D

conclusion that the case he reports was a case of primary i tracortical and subperi sterl lymphangio endothelioma and that every true Eving s tumor is of this type. The origin 1 in the lymphatic endothelium of the haversian canals and beneath the periosteum. The old theory that E ing s tumor is a primary osteolytic neoplasm of the medullary cavity is erroneo s CHESTER C GOY M D

Konjet ny C E Bone Sarcoma and Its I imits (A ocl asark me dih Begenz g) Arcl f 933 cl 1 335

The author reviews the advances that have been made in recent times in our knowledge of bone sar coma call ng attention part cularly to the funda mental investigations of the American Peg try of Bone Sarcoma founded by C dman in 19 o the re s Its of wh ch have yielde I new data for the reco... n t on and judging of bone sarcomata

On the bas sof I win are mmendati ns and the clas if cation d eloped by the Ame can Registry of Bone Sarcoma bone sarcomata are divided into five g up (1) Osteogen c sarcoma (2) I wing s sarco ma (3) periosteal fib arcoma (4) parosteal and extraper osteal sarco a of the soft parts and (5) unclassified tumors

The metastatic gro the and myelomata constitute a special group of m I gnant bone tumors

Americans apply the term osteo enic sarcoma to all b ne sarcomata which can be traced back h to enetically to the tissue elements entering into normal bone structure. The tissue structure of n al gnant tumors developing from the osseous mesenchyme corresponds to the manifold develop mental p ssibilities of these cells in the formation of cartilag nous osteoid osseous and connect ve tis ue The explains the well known terms for the vari ous to sue forms. The osteogenic sarcoma is the mo t common bone tumor It develops as a single growth and occ r most freq ently in the long tub far bones e pecially those of the lower e tremitie The p imary d elopment takes place us ally in the metaphysis and rarely in the diaphys s A prima y appearance in se eral bones is observed practically only in Laget's o test's fbrosa The tum rism t common between the fifteenth and twent eth years of a e Sarcoma developing on the basis of Pag ts oste tis fib osa usually occurs at more ad anced ages

With reg rd to the causes of the occur ence of sar coma very I tile is known The fact that the tumor occurs most frequently in the period of maximum bone gro vth m y be of et: logical si mi cance The often repeate I question regarding the rel tions be ty een injury a d sarcoma d elopment h s not yet rece yed a defi te answer In general the the v of such a ca al lationship mu t be rejected in p te of the possibility that injury m y hasten the develop ment of a sarcoma Also difficult to answer is the question of the importance f chron c inflammati us chronic irritations and end crine and metab lic d turbances in the development of sarcoma In this connection the author cites the devel pment of

sarcoma on the bas s of Paget s osteitis deformans and the somewhat obscure cases in which the devel opment of sarcoma is ass med to have had its one a in a circumscribed osteit s fibrosa to sare ma developing during the healing of a frac ture and on the basis of a traumatic periostitis or myo itis ossificans Of g eater general pathological importance are Martland's conclusions regarding the sarcoma occurring in radi in dial painters which de veloped on the basis of banges in the b ne marrow (in the sense of an osteitis fibrosa) and must be at tributed to the chronic irritating effect of radioactive substances Mention is made also of the development of bone sarcoma after roentgen irradia tion of tuberculous joints A case of sarcoma devel oping in the region of a local osteomyel tic fistula is reported and attents n is called to the fact that ex osto es and chondromata may undergo malimant degeneration (secondary chondroblastic osteogen c sarcoma)

The auti or d scusses next the clinical symptoms and clinical diagnosis especially the mentres diagnosis The clinical differentiation of hone sarcoma from various other bone diseases is as ociated with great and sometimes insurmountable difficulties The difficulty in ce tain cases of d ff rentiating the o sifyi g subperiosteal fixmatoma or so called trau matic periostitis from sarcoma is discussed on the basis of two cases seen by the author

The p ognosis of osteogen c sarcoma is discussed br elly The differentiation Letween primary and secondary chondromatous sarcomata is importa tas the prospects for cure may be qu te different in the

two conditions

Histolog cally Ewing s sarcoma is an immature The development of this round celled sarcoma tumor in bone and its sensitiveness to irradiation have been known for a long time but we are indebted to Ewing for clarification of the clinical symptoms and the roentgen f dings Acco ding to the compre hensi e American statistics Ewing s sarcomat co stitute is per cent of all bone sarcomata occur usually in young persons but may develop al o in ad anced age They are often ch racterized clinically by an elevation of the temperature and a marked leucocytosis The condit on may be easily co fused with osteomychitis Even when b opsy is done this diagnosis may be suggested by certain pathologico anatomical peculiarities. Accord g to the finds gs of recent investigations which indi ate that the tumo 1 ap mary bone lymphoma Lwings original theory that it is an endothelial myel ma m st be ejected Very cha acter stic is the metas tasis in the bony system which may occur quite early During the late stages there are in addition numerous metastases in the internal organs e pe cially the lungs As the diagnosis is usually made late the prognosis is as unfavorable as in osteogen c sar coma

The periosteal fibrosarcoma develops from the p riosteum a d like the e t aperitoneal s rcoma of th soft parts may t olve the bone It occupies a special position as it is the most highly differentiated and most curable of bone sarcomata. In all cases primary amputation is followed by definite cure

Among the extraperiosteal sarcomata of the soft parts there may be immature sarcomata which, on superficial observation, may seem to resemble fibrosarcomata. Of decisive importance in the prognosis and treatment is the histological structure of the tumor. Classification of the periosteal fibrosarcomata as a special group of bone sarcomata is necessary and must be taken into consideration in future statistical reports.

First among the rare malignant tumors of bone are the endotheliomata, and next, the lipoblastic bone sarcomata (liposarcomata) The myelomata and metastatic bone growths are discussed briefly

The most fundamentally important advance in the diagnosis of bone sarcoma is recognition of the fact that the so-called "crustaceous my elogenous giant-celled sarcomata" have nothing in common with the sarcomata and are benign formations The firm foundations of today are the result of decades of careful research in many places The author re-There is views the history of these investigations a difference of opinion as to whether these tissue formations are of an inflammatory nature or are that they are of a simple reactive character are cited The grant-celled tumors are chronic, inflammatory, resorptive new formations or regenerative malformations or evuberant growths to which a confusing number of names have been applied in the literature For the term "local tumor-forming osteitis fibrosa" the author suggests substituting the term "giantcelled granuloma"

Numerically, the benign giant-celled tumors play a very important part among the bone tumors. As they are observed nearly as frequently as the osteogenic sarcomata, exact knowledge regarding them is of importance Progress in pathologico-anatomical and biological knowledge has considerably increased the reliability of clinical diagnosis and, in treatment, has prevented unnecessary mutilations which, even in recent times, have often been regarded as correct In the history, trauma is often given as the cause of the tumor The parts most frequently involved are the distal femoral epiphysis, the proximal tibial epiphysis, and the distal radial epiphysis According to the comprehensive American statistics, the knee joint is involved in more than 50 per cent of the cases condition occurs with equal frequency in both sexes It is most common between the ages of twenty and thirty years, but in about 30 per cent of the cases it develops between the thirtieth and seventieth years In the great majority of cases only one bone is involved, involvement of several bones usually indicates von Recklinghausen's generalized osteitis fibrosa However, there is a diostotic form author discusses the latter in detail

Konjetzny emphasizes that the generalized osteits fibrosa of von Recklinghausen and the isolated giant-celled granuloma are entirely distinct diseases

A transition of one into the other, such as has frequently been assumed, is therefore impossible. The brown tumors in the generalized osteitis fibrosa of von Recklinghausen are very characteristic of that disease, but are not specific.

The author discusses the clinical aspects and the pathological anatomy in detail and especially the relationship of giant-celled tumors to central bone fibromata and bone cysts. He cites the spindle-celled and zanthomatous variants of the giant-celled tumors, and reports a case of central bone zanthoma as a variant of the typical giant-celled granuloma. He discusses the course and development of giant-celled granulomata of the central and cortical types. The principles of treatment are outlined.

Even today, two objections are made to strict separation of the typical giant-celled tumors from the osteogenic sarcomata (1) emphasis of the fact that recurrences have followed simple curettage of the typical giant-celled tumors, and (2) reference to various observations from which it is inferred that a typical giant-celled tumor has taken a malignant course and formed metastases. These points are discussed in detail. Recurrences after simple curettage are explained by incomplete removal of the diseased tissue. Secondary infection after curettage of giant-celled tumors and its sequelæ are discussed of the question whether gradual malignant change may occur in benign giant-celled sarcoma is discussed at length. So far, such a change has not been proved.

In conclusion the author gives his views regarding the question of the diagnostic importance of biopsy and the exploratory excisions from bone tumors. He states that opinions with regard to the efficacy of biopsy differ according to the pathologist's ability to grasp and evaluate pathologico-anatomical and histological findings. There are avoidable and true difficulties in tissue examinations. He who weighs the pros and cons scientifically and critically can never underrate biopsy. He will see in it one of the most important diagnostic methods in the realm of clinical study. However, it must be used just as skillfully as any other method of research.

KONJETZNI (Z)

Ianas, A Hæmophiliac Arthropathy (Artropatule hemofilice) Re- de cir, Bucharest, 1933, XXVI, 464

Joint manifestations are among the most frequent complications of haemophilia. They may occur from the time the child begins to valk up to the age of fifteen years, but are most frequent between the ages of three and ten years. They are usually preceded by epistaxis, bleeding of the gums, and ecchymoses. In some cases hemarthrosis is the first clinical sign of hamophilia. Hamophiliac arthropathy generally occurs in senious cases in which the coagulation of the blood is delayed more than an hour. It frequently occurs after repeated slight trauma. The knee joint is affected most frequently, and the elbow next most frequently.

From the point of view of pathological anatomy, hamophiliac arthropathies may be divided into

(1) haemarthrosis (2) chronic arthritis with or with (1) memarinosis (2) tinome actinius with or with out ankylosis and (3) arthritis deformans. These out anaytous and (3) actuates decormans areas in reality different stages of the same process The author reports a case of each form with roent

Felix The O sanic Unity Between Nerve and Mus cl (U b) die E nheitsbe chung muchen Nerve und Mus (1931) p 2447

Organic unity is defined as an active attempt at unity which becomes evident when there is a separa from of the individual parts of an entity Arrest of tion of the individual parts of an entity officer to degeneration of skeletal muscle affords an experi organization of sacretal infuscie amous an experi-mental means of explaining the problem of organic mental means or explaining the problem of organic unity. The muscle is separated from its motor nerve unity the muscle is separated from its motor nerve and the motor nerve immediately implanted into the paralyzed muscle at a distance from its original point of entry For such experiments the diaphragm has or entry ker such experiments the majoriskin has need to been found especially suitable as it consists of two been sound especially authoric as a cousine we two feating with a separate interview which is accounted to perative approach it has a movement accessing to operative approach it was a movement of singuishable from that of the neighboring nuscles which may be observed roungenologically and it which may be unserved formigenous training and the may be photographed in penetrating light. The may us protographen in penetrating fight line phrenic nerve is severed just above its entrance into purence acree is severed just source as custance into the muscle and re implanted into the paralyzed half of the muscle somewhere else. While progressive atrophy leading to complete disappearance of the acropus naming to complete unappearance of the muscle fibers occurs in the involved half of the da phragm the daphragmatic musculature closely pursuant the taputagmatic musiculature closely bordering on the area of implantation remains normal Under the influence of the re implanted normat Univer the municipe of the re-impanted the muscle is kept from degenerating. All

nerve the muscle is kept from degenerating of though the author's observations were continued triving the action's conservations were continued for two ) cars true regeneration of the muscle was I r two years true regeneration of the mastic was never seen. In the dog there is no true regeneration of the striated muscle of the diaphragm The interruption of degeneration in the vicinity of

the new site of entry of the nerve is dependent on the confact between the nerve and the muscle. As t may be seen in the third week it is not dependent on the development of the axons from the stump on the development of the arous from the stump from the day of the nerve implantation the muscle in the vicinity of the nerve was made to cont act to galvanic faradic stimulatin applied to the nerve o muscle Degeneration failed to occur also when o musue regeneration issues to occur elso when the stimulation was applied not to the junction of the nerve with the muscle but to the nerve itself

While the sympathetic fibers of the phrenic nerve must be regarded as sensory fibers the question also take over the troph confluence which was noted also take over the troph c inductive which was more in the experiment. In the dog the phren c nerve in the experiment in the edg she point a may be deprived of its as mpathetic constituents by may oc deprived of its sympathetic constitution of the stellate ganglion | Veve theless extingation of the stenate ganguon few theress arrest of degeneral n as demonst ated also in this arrest or degenerat n as demonst ated also in this animal. Therefore the living relation between ne ve and muscle is dependent not on the sympathetic and must to dependent not on the sympathetic fibers of the phrenic nerve but on a function of the

When a I ving layer of pleura or pen ardium was when a verifies exper or previous or year around was interposed between the prox mal stump of the nerve

and the diaphragm arrest of degeneration occurred and the unspiration unless of ackentration extured because the resistance was overcome. After three months the p eserved portion of muscle has actively emanates from the nerve a powerful growth process Accordingly it is evident that there eminiates from the nerve a powerful growth process which reaches the muscle f bers and is only retarded not arrested by interposed tissue

By such experiments we can study problems of by such experiments we can study promens or importance in practical surgery such as the remainder that the property such as the remainder that the and the late innervation of paralyzed muscles by ther own nerves Implantation of the phrenc nerve frat into another muscle and then into the da phragm is late innervation Even after from three to portagui is saccumervation avenues is no longer apparent This explains the many fa large of practical surgery and explains the many is the new innervation in new neurotization. If the new innervation in in new neurotication in the new innervation in volves a muscle with impaired nutrition no trophic or motor influence results Arrest of degeneration or motor diministrations areas or degenerations fails to occur also when foreign innervation is done eg when an intercostal nerve is implanted. This was the case when the vagus nerve was implanted was one case when one vagus nerve was impanied in the daphragm. The result is different however. nd the d apmagm. And result is dimerent moneyer when the vagus nerve is implanted at the point where the phrenic nerve formerly entered the diaphragm an anastomosis being thereby effected between the vagus trink and the distal stump of the phrenic nerve trophic influence on strated muscle by means of a trupnic inducate un minister muscure, meaning sympathetic nerve. Honever as active movement

sympathetic heave tropever as active movement meer occurs the vagus neuron replaces the nutritie but not the motor function of the motor number klemper r P Myoblastoma of the St lated Mus

klemperer reports six cases of myoblastoms of Astraited muscle seen in the Mt. Sinai Hospital New

Myoblastomata of striated muscle are most com mon in the third and fourth decades of life and are twice as common of females as in males. They are found most frequently in the tongue They are Senerally benga All of the patients whose cases Scarcaty peniga An or the patients whose cases are reported by Klemperer were entirely well when they were last seen. In one case twenty years had elapsed since the myoblastoma was recogni ed

In the differential diagnosis the chief neoplasm to As the time time entire integrals to the time interpretation be considered in the xanthoma but this is always ruled out by the absence of fat in the tumor cells P LL C COLOYNA WD

Macaggi D True and Pseud Dupuytten Con caggi D frue and rseud Dupuytren tr cture in R lation to the Discussed Trau tricture in a ration to the Discussed Primarle Eet logy of the Lesion (very public pupus et all discussed Primarle et all discussed et all discussed et all discussed et all discussed et all et all discussed et all et all discussed et all et 1 743

The author states that Dupus tren's contracture of the palma aponeurosis is most common in males ab ut fifty v ars of age. It s fi st manifested by a decrease in the extension of the ing and small

fingers at the metacarpophalangeal joints changes in the middle finger are less evident, and the index finger and thumb are rarely involved. The condition runs a slow course. It usually begins in the more active hand Often it is present for from one to two years before contracture is evident, and from six to twelve years before the advanced stages of the disease are apparent. The contracture is usually symmetrically bilateral, but is more pronounced in the active hand When it is fully developed, the basal phalanges are forcibly flexed on the corresponding metacarpals and the middle phalanges on the basal phalanges, but the distal phalanges remain Associated with the flexion there are longitudinal cords in the palmar aponeurosis, along the course of which irregular nodules and intersecting bands may be felt Anatomically, sclerotic and atrophic changes are present in the palmar aponeurosis, skin, and subcutaneous tissues. The flevor tendons remain relatively uninvolved

Dupuytren's lesion is uncommon. The author believes that trauma is not a factor in its development. He states that Mori found the condition in only 4 of 21,800 manual laborers, and he, himself, found it in only 5 of about 2,000 industrial employees such as miners, mechanics, and metal workers. More frequent in the hands of such workers were changes that may be classified as pseudo-Dupuytren's contracture as the hand subjected to repeated trauma tends to be somewhat flexed. The author attributes this flexion to a contracture of the tendons. Localized areas of thickening, nodules, and fibrous cords may also be produced by the chronic circum-

scribed irritation of an instrument

Macaggi reports 3 cases of contracture of the
palmar aponeurosis showing the differences between
true and pseudo-Dupuytren's contracture

PITTER A ROSI, M D

Gubern-Salisachs, L. The Etiology of Dupuy tren's Lesion (Consideraciones acerca de la etiologia de la enfermedad de Dupuy tren) Ren de cirug de Barcelona, 1933, iii, Si

Dupuytren's lesion is a retraction of the palmar aponeurosis. The name "Dupuytren's contracture" is incorrect as there is no pathological change in the muscles or tendons. The condition has been attributed to trauma, gout, rheumatism, chronic intoxication, tmbryological malformations, and other causes I rom a study of twenty-nine cases, Kanavel, Koch, and Mason came to the conclusion that it is due to a hereditary tendency

The author reports fifteen cases and concludes that the condition is the result of a funiculitis or neurodocitis of the extrameningeal tract of the nerve between the ganglion and the plexus, that is, through the vertebral foramen. In support of this conclusion he cites the contracture of the vertebral muscles of the adjacent column causing segmental rigidity of the vertebral column in a number of his cases. He states that the spiral fluid findings are also significant. In radicultis

there is a lymphocytosis, whereas in funiculitis there is only a slight hyperalbuminosis. The cause of the funiculitis in the majority of the cases reported was cervical arthritis. The author believes that in all cases it is a trophoneurotic nervous lesion, but that it is not necessarily rheumatic. Similar lesions may be produced by syphilis, alcoholism, lead poisoning, and diabetes. Syringomy cha is a frequent cause of Dupuytren's retraction, and even very slight nerve lesions may produce the condition.

Audrey Goss Morgan, M.D.

Badgley, C E Osteomyelitis of the Ilium Arch Surg., 1934, xxviii, 83

Articles in English on osteomyelitis of the ilium have been comparatively few and most of them have dealt with acute osteomyelitis. Of the articles appearing in foreign literature one of the most outstanding was by Goullioud and another by von Bergmann

Acute osteomyelitis of the ilium is generally regarded as a rare lesion with a grave prognosis and the frequent development of serious complications in those who survive. A proper understanding of the disease places the treatment on a definite basis, lowers the mortality, and generally leads to excellent results. Poor results are due to disregard of the facts now known.

Cases of osteomyelitis of the ilium constitute from 1 to 2 per cent of all cases of osteomy elitis condition usually occurs before the twenty-fifth year of age. It is more common after than before puber-Goulhoud, who published the first comprehenty sive article on the condition in 1883, divided cases of osteomy elitis of the pelvis into two groups with distinct clinical syndromes corresponding to the two periods of development of the pelvic bones first period extends from infancy to puberty, at the end of which time there is fusion of three bones forming the acetabulum. In cases of osteomychiis of the pelvis developing during this period there is a diffuse infection which almost invariably occurs at the border of the acetabulum. The infection may be periacetabular and spread through the ilium, or intra-acetabular and involve the hip joint proper The second period begins with ossification of the acetabulum and the appearance of marginal epiphyses, and extends to the time of fusion of these epiphyses, at about the age of twenty-five years. In this period the lesions occur about the marginal epiphyses. The chief points of involvement are the crest, the superior spines, and the infero-anterior Goullioud advocated more radical operative intervention in this disease, with extensive draininge and removal of diseased bone. For cases with hip involvement he urged resection of the ihum

In 1006 von Bergmann reported swenty-one cases of osteomy elitis of the pelvis. He also advocated resection of the diseased bone, especially in chronic cases. He recognized the frequency of recurrence after palliative operations, as for drainage only and discussed the rare formation of sequestra and the fre-

qu nt perforat on of the tables of the ilium He called attent on to the marked thickening and sclero sis in chronic cases His treatment seemed so radical that the wisdom of his advice was not reco nized and the exten ive resections he urged were performed in only a few cases

The author briefl discusses the development and anatomy of the pelvis emphasizing the irregular structure of the ilium and its thinne s at the bottom of the acetabulum and the center of the iliac fossa He calls attents a to the slope of the il um which favors the formation of abscesses in the internal iliac f sa and the tendency of these at cesses to point

f rwar lat Scarpa's triangle

In some cases of osteomy elit s of the dium trauma seems to be a contribut ry factor. The bacterial organ m is usually the staphylococcus pyogenes The il um is similar to the ly g bones in that it has epiphyses and rielly vascular juxta epit hyscal zones in v high there are centers of rapid ossification Infections become localized in these juxta ep physeal zones in the same way as according to Oll er's find ngs they become local zed in the long The rich periosteal blood supply tend to present extensi e necrosis of bone and mas ive se questration in infect one of the il um In the great m 1 nty of cases which occur belo e puberty there a diffuse in olvement about the acetabulum in the zone of greatest vascularity from the nutrient we sel The evilence indicates that the lesion occ. rs first in the c reex an I later spreads subperiosteally. There fore resection of bone rather than simi le drainage of the subperiosteal space should be don The r rin c ples of path logy of osteomyeliti of the long by nes appl almost equally well t the ilium the ch ef dif ference being that in the il um a generous blood supply of the periosteum on each si le of the th n cortex prevents stensive sea estrat on Involucrum for mation with dense eburnation of the bone may occur a d small sequestra may form but are realily digested by autolytic ferments caries and phago CYTOSIS

As observed by Go II oud acute osteomyel us of the il um is of two main types a local zed type and a diffu e type. The diff se t pe occur in the pe p berty period arising in the peri cetabular r g on ser all ne through theil in frequently invading the inte. The localized type occurs after puberty in the regi n of the marginal epiphyses us ally in the anterior portion of the ilium less often in the posters r portion where there may be inva n of the sacro-iliac joints and rarely in the 1 ac crest or only in the periosteum. Characterist c features i clude the absence of ma we seg estrati n af eq ent tend e cv to ard perforation and a marked tendence towar I the format in of an above s in the internal that fossa. The at cesses generally gra state into Scarpa's triangle but may point poste jorly to the sacro il c pi t or letit s tr angle

The d agnos s of acute oster myelitis of th 1 m often dit cult The diff culty is due t the rty f

ha

Re ecti n is in li tel alse in the diffuse type with

ext st > whelm gge eral infection but in th cond t n th m rt l ty t h gh with any tr atmert

I theil ma dis no more dil cult or st xhir trephin perati n It offers the best t onl f life but also I r permanent eu e the trephin

few d vs later hen the patient's condition has im pr e l If the patient a condition permits resecti of the ilium should be d ne at first The bone sh ul i be e pised subpen steally in both tables to the re atel eand the whole wing of theil um r m ver i wn to the supra otyloil port n If th hip ) s a lei as is rarely the case the while ilium h ull be resected Removal of the ilum to the peri cetabular region with adequate driinage g es g iod p spects f complete recovery and regenera

Later a 1 calize 1 bone resection may be nece 20 Dra nage through the tret h ne open u illy recommen led b t is not satisfactory the patient is extremely toxic the abscess shi uld be dra n 1 by subpert teal reflection of the internal

table and the more radical operation performe! a

The treatment depends upon the stage of the d s ease. In the acute stages it depen is upon the lica tion of the les on If the lesion is localize I to the marginal epiphyses incision and sufficient exp. ire of the bone for thorough dra nage are indicated In the liffuse type which is usually seen a chill en the c ternal table she ld be exposed an la scarch for [ u made by treph ning through the bone above the acetal ul m When pus is present it ill be found along the inner table an I trephining is a diagnost c

not noted externally. S elling may appear in Scarpa s triangle The other In lines are sim lar to tho e in o teomy elitis el cubere in the body Larly roentgenograms show no be ne changes but may d s close soft tissue swelling Later a mottling at pars an I still later an esteosclerosis which usually means anal cesal ethy eburnated bone In chronice ses lense thickening of the bone with possibly bo yover growth on the external surface is seen

triangle Tenderness to pall att n is fou I early in marg nal le 1003 and later in central or diffuse infec tions Rectal examination may reveal ten i mess

Of the local symptoms the most outstanling is The second sell of the second of the Scarpe se

Clin cally three types of acute osteomyel tis are seen (t) that in which the lesion is localized to the crest or spice the local findings are definite an I the diag osis is easy (2) that in which the le ion is diffuse occurs usually in the prepuberty period and is associate I with both local and general symptoms of infection and (a) that in which there is a profound septicamia with comparatively insignificant local symptom

the le ion the frequent sevents of the illness the

earl absence of tenderness to palpation and the fact

that the condition may be confu ed with pyarthros:

of the hip joint. The differential diagnosis between

osteomyeliti of the ilium and pyarthrous f the hip

is based on the fact that in the former condition

guarded motions of the joint are still possible

r The persistent severe pre-operative pain which sometimes caused complete disability for work was completely televed in some cases and markedly releved in others. In many of the cases pain persisted during work especially continuous work

2 The increase in movement of the urist varied considerably. In all cases motion still remained limited.

3 The loss of the gross power of the hand still persited in all cases. In the three cases in which the results were poorest the condition was attributed to an accident.

According to the theory most generally accepted malacia of the semilunar bone is an occupational rather than a traumatic disease. However in Sountag's opinion the possibility that it may result from a single severe trauma cannot be evoluded

The technique of operation is not always very simple when the bone is very soft and the cartillagi nouszone is fragile. When the ligamentous apparatise is vell preserved separation of the semuluant and sraphoid bones may be difficult. In a few cases reported in the I terature both bones were estimpated together by mastake. However the result of the appear to have been made some thereby. Of the appear to have been made some thereby. Of the powerful in the six which signs of arthritis deformance the posterior in those in which signs of arthritis deformance the posterior in the six which signs of arthritis deformance to the posterior in the strapation. The water posterior is the time of the estimpation. The water present at the time of the estimpation. The water present after the time of the estimpation. The water present appears to treatment at the time of the estimpation.

#### FRACTURES AND DISLOCATIONS

Pich II and Bracher M The Treatment of Dislocation of the Semilunar Bone (Lut B ha i lug de Monib; errenkung) Ch rg 1933 785

Fract information as to the frequency of dislocation of the sentilunar bone has not been obtainable heretofore. Whereas Hirsch and Schnek state that this Islocation is the most frequent disorder of the carpus ne to fracture of the scaph of Wette found that am juminers the most frequent disorder of the carpus is necrosis of the semilinar bone

The dia mosts of distraction of the semulurar bone is made especially easily by \text{Try examination \text{Nevertheless }e en the most recent publications show a large numbe of neglected cases. It spip are therefore that even today the injury is often n tecopojused. Faily diagnows is very important as it influences the treatment decisively.

As nevery dislocati in non-operature report in its method if how ex Annas methods he be been proposed (Hirsch: Clarmont and Schn: Ein terer and Bochler) and successfully apple of Honever while all of these re-thods yield good results a fresh doctations they fail in the cases it cases in which more than week her doctations they have been as the control in the property of the control in the property of the control in the property of the control in the while apparatus the cas it has become fill I with granulation to use and under some conduct in the semifinant bone has andergone a secondary

rotation In such cases manual reposition even with the strongest pull will not succeed and because of the difficulty of reducing the semilunar bone by leverage open reposition also fails to yield a good result

It vas not until Boehler proposed a new procedure making use of his screw apparatus that it became possible to bring the semilunar bone back into its original position by conservative measures. Ann jetzny proceeded in a similar manner but opened the carpus from the dorsal side. He too obtained a good result. However, there is a time limit even to these methods. If more than six months have passed since the accident the articular surfaces have become change I by inflammatory deposits so that the semilunar bone no longer fits into its original bed and the ligaments have shrunken extensively Under such conditions extirpation of the bone is necessary Boehler is willing to remove the semilunar bone on when there is a disturbance of the median nerve in the absence of such a disturbance he regards the operation as superfluous. The authors do not agree with Boehler on this point. In operating on an old dislocation of the semilunar bone which had under gone torsion to go degrees they found the semilunar bone wedged firmly between the other hones. The superticial flevor tendon was shredded in this region and only from 1 to 2 mm thick Extirpation of the semilunar bone brought about great improvement in the symptoms. This case shows that in addition t the well known disturbances of the med an nerve in old dislocations of the semilunar bore there may be injury to the flexor tendons which may easily have serious consequences since at first it causes only vague symptoms that cannot be distinguished from the symptoms of the dislocation of the semilinar bone. If a wearing through or team g of the tend n has already occurred it a too late for surgic linter vention The authors therefore recommend extirps tion of the semilunar bone in every case of d si ca tion in which reposition is impossible. Remo at f the semilunar bone is always of course a mut lat ng operation but can be avoided if the dislocat on is recognized and given suitable treatment early

ZILLWER (7)

Jones R W The Treatm nt of Fracture nd Fracture Dislocations of the Spine J B ne & J 18 g 1934 1 30

The author has reviewed ciphly case of fracture of the spine covering a period of four vests and has found the results very, satisfactory. The treatment consisted of gentle hyperestration opening up the cancellous I one. Jones obtains this hyperestremon by I laung the patient in the prone position with the loner limbs on p to the grown on one table and the head and upper I mbs on a slightly higher table so that the body sags between the two possess of the possibility that a fracture subscatton may be over educed when the muscles are fully relaxed in undestable. After the hyperestreamon in obtained

#### SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Gr ko I Ti Errors and Dang rs in Su ge y of the Blood Vessels (A s d m & b te de Fehle u d Gef b n der Chrup, e der El t faesse) I est k Cl 1933 lxx 1/l 1 18

The author reports three cases of surgery of the blood vessel

The first case was that of a man thirty six we is old A gunshot injury of the lumbar region v as fol lowed by gradual enlargement of a vein and ele phantiasis of the right leg. The patient did not come for operation until after twelve years. He complained of pain and difficulty in walking. The enlarged veins pulsated and hummed The author believed an arteriovenous aneurism of the left ili c vessels to be present and performed an operation on the bass of this diagnosis Exposure of the large vessels by an extraperitoneal incis on apparently revealed an anastomosis between the common iliac artery and vein When the enlarged vein ligated above and below the supposed anastomosis the venous pul e ceased. During the dissection of the vein from the artery a radiat ng arterial hæmor rhage occurred The open ng in the artery vas sutured and the wound closed are nd a tampon At first the postoperati e course was satisfactory but later septic suppuration and hamorrhage occurred and the patient died on the eighteenth day At autopsy an arteriovenous ancurism bet een the hypoga tric artery and the external iliac ein (not between the common that vessels) was found. The author belie es that the cessation of the enous pulse after I gat on of the common iliac vein was due to a quekly developed thrombosis which blocked the arterio enous connection The arterial bleeding during the operation was apparently due to a tear in the artery

The second case was that of a woman teenty suryears old Obstruction of the external line artery by swollen hmph glands was diagno of as arterial embolim. An attack of typhouf lever was followed suddenly by pam cytanosis and coldness of the right leg. The external it ac artery and the lemoral artery were I end by operation. When the large that the properties of the wood and the thought of the properties of the wood has been dealed to the properties of the wood the bana ceased completely and the leg became red nd warm.

The th ri case was that if a w man thirty eight years old who de eloped an arterial spasm g gesting an arterial embolism after esection of the stomach for carrimoma. Two weeks after the gastri operation the left leg suddenly became cold and pale and the pulse in the femo all artery could no longer be felt. Operation revealed only a spastically

contracted artery The Leriche procedure was followed by recovery h Patrov (Z)

Berel us G Studies on the Hæmorrhag c Tend ency of the Capillaries of the Skin in Artificial Venous Stasis (St d n ueb rd Bl t b t d d r Hautkapilla en b i k n ti be p eser Staumg) 11am d S nd 933 l x 25r

The methods used previous to 1928 to determ to the hamorrhap c tendency of the capillare so if the skin in artificially induced venous stass were fit it because the same stass pressure was not used in all cases. Consequently the effect on the capillares varied markedly and the results were not comparable. A more suitable method w 5 therefore sought.

If a uniform stasis pressure vere used in all in vestigations there would be greater agreement of the results in the diffe ent cases. That even under these conditions the agreement is n t perfect was shown by an experiment carried out on an artery of a recently slaughtered steer. After the artery had been filled with water a pressure of 136 c cm of water (100 mm Hg) was e erted on the inner side of the arterial wall through an attached tube. As the air pressure was gradually increased in the glass con tainer in which the artery was placed the change in the size of the artery was studied. With every stass pressure there occurred also a compression of the artery with a resulting damming back of the arterial afferent flo v With the same stasis pressure varia tions in the degree of the damming back vere produced by variations in the blood press e and the clasticity of the arterial wall. As a consequence the time necessary for the development of maximal stas s in the obstructed area varied al o and with it the effect on the c pillaries. It is the efore imposs ble to elaborate a method of procedu e in whi h the capillaries are subjected to exactly the same pressure in e ery case

In tests on several hundred individuals with arisations in the pressure and in the duration of stass a stasis pressure of 80 mm. Hg of three minutes duration w a found to be sati factory

As a result of the progressive equalization of pressure in the visculi raystem the capillary pressure in venous stars as becomes just as great as the veno a pressure. Therefore to determine the capillary pressure in veno a stass a study, of the venous pressure under the same cond tions is necessively Measurements of venous pressure also did that a pressure of 80 mm. Hg is suitable I r test flat the bleeding tendency of the skin cap llaries provided the stars a following the stars.

It was found that with sim laneo satas sin both arms the results in the two arms may vary markedly

The following technique was therefore used

Two blood-pressure cuffs were applied symmetrically to each arm and attached to a common air pump by a T-tube. A pressure of 80 mm. Hg was applied for three minutes. If petechia appeared on the dorsal aspect of the arms, this was noted, especially if they were more numerous on the volar aspect. As a rule the hamorrhages appear predominantly on the volar aspect, especially at the elbow. The reading in this case was made on a circular surface with a diameter of 4 cm. at the elbow, where most of the petechia appear. The result is the arms.

Tests made in the cases of healthy persons on a diet sufficiently rich in vitamins showed that the borderline between the normal and pathological number of hæmorrhages is between four and five Because of constitutional variations and physiological differences in the hæmorrhagic tendency, a single moderately abnormal finding is not of much significance. The hæmorrhagic tendency of the skin capillaries also shows physiological variations and depends, among other factors, upon whether hyperæmia of the skin develops during the test or not. Bodily evertion also appears to increase the hæmorrhagic tendency.

Louis Nelwelt, M.D.

Rosen, S von A Case of Thrombosis of the Ulnar Artery Caused by the Effects of a Dull Force (Ein Fall von Thrombose in der Arteria ulnaris nach Einwirkung von stumpfer Gewalt) Acta chirurg Scand, 1934, IXXII, 500

The author reports a case of thrombosis of the ulnar artery following a contusion of the hypothenar eminence. The condition caused the hand to ache when it strained during work. The symptoms were entirely relieved by removal of the thrombosed part of the artery and liberation of the ulnar nerve which was adherent to the artery.

Dos Santos, R Arteriography of Tumors of Bone and of Soft Tissues (L'arteriographie dans les neoplasies des os et des parties molles) Bull et mem Soc nat de chir, 1934, lx, 99

The author reports the results of a study of thirty-seven tumors of the extremities by means of arteriography Arteriography is a method of visualizing the blood supply to a particular region which is suspected to be the site of a morbid process. The contrast medium employed by the author is thorotrast After the injection, roentgenograms are made at intervals of several seconds. This technique yields information which cannot be obtained from the simple flat plate By means of it the author is able to distinguish a benign bone tumor from a malignant bone tumor, acute and chronic osteomyelitis, syphihs, and tuberculosis of bone Malignant bone tumors are usually characterized by a deviation of the main arterial trunk due to the tumor itself, a rich arterial network, and visualization of the venous tributaries in six seconds A gumma of bone will

show a relative ischæmia. In acute osteomyelitis there is a slight increase in the arterial supply, venous emptying is slower, and there is usually an arteriocapillary stasis.

The technique described has been employed by the author also in the study of the evolution of

tumors treated by irradiation

BENJAMIN B P SHAFIROFF, M D

Roysralta, E The Treatment of Circulatory Disturbances of the Lower Limbs (El tratamiento de los trastornos circulatorios de los miembros inferiores) Arch de med, cirug y especial, 1933, NI, 1194

The author reviews the literature and the various procedures that have been tried in the treatment of

circulatory disturbances of the lower limbs

Following the work of Silbert, Roviralta injected alcohol into the internal branch of the anterior tibial nerve in the case of a patient suffering from advanced thrombo-angiits obliterans and painful necrotizing ulcer of the big toe. He obtained excellent immediate results, but all of the symptoms recurred at the end of three weeks. The patient had previously been subjected to periarterial sympathectomy of the femoral artery without relief from pain

Encouraged by the temporary relief which followed the alcohol injection, Roviralta ventured a neurectomy of the anterior tibial nerve of the same patient. This operation had been tried by Quénu many years previously. In the author's case it was followed by immediate relief of the pain and complete healing of the ulcer in a few days. The patient has now been practically symptom free for five years. His only trouble today is an occasional attack of intermittent claudication which is not serious enough to interfere with his work.

In a case of ulcer on the inner border of the foot extirpation of the posterior tibial nerve was followed by complete relief of the pain and practically complete healing of the ulcer, but at the end of a year the pain recurred and the ulceration extended to the dorsum of the big toe Excision of the anterior tibial nerve was then done and was followed by complete remission of the ulceration and pain. The patient has now been free from symptoms for eighteen months

The author reviews also three cases of thromboangutis obliterans in which neurectomy was performed with marked alleviation of the symptoms. In one of these cases a lumbar ganglionectomy had resulted in only transitory improvement

Neurectomy was tried also in a few cases of diabetic arteritis. It relieved the pain and increased the temperature of the extremity, but did not arrest

gangrene

In conclusion the author advocates peripheral neurectomy in preference to sympathetic ganglionectomy in the treatment of circulatory disturbances of the lower limbs because of the high mortality and the uncertainty of the results of the latter

I Bird-Acosta, M D

#### BLOOD TRANSFUSION

Scheurer Waldhelm F The Results and Ex periences in 500 Blood Transfusions (Ergebu see und Erfahru gen be 500 Blutt an f 3 on n) De ! he Zisch f Chi 1933 cc. lt 332

The author describes the technique used for blood transfusion in the Surgical Clinic of the University

of Graz Every donor receives a certificate with a photograph a dupl cate of which is kept in the Chinic After each transfusion the certificate of the owner is retained for six weeks The Wassermann reaction is tested every six weeks but the clinical examination is regarded as more important. Hypertonic in dividuals belonging to Group o are good general donors because of the very low agglutin n content of their serum. The affected arm of the donor must be immobilized for at least twenty four hours as other wise thromboses may develop readily. The donor ıs paıd

The determinatio i of the blood grouping is made by the glass sl de method and the hæmotest Al though it is not a question of mass e aminations errors have occurred repeatedly. Two blood trans fusions were fatal because of group weakening or failure of the hamotest Previous to the transfusion a repeated test and an Ochlecker biological test are always necessary In fact the author demand for the donor an examination of the erythrocytes with a hæmotest and testing of the serum with test blood corpuscles For the recipient the hæmotest slide examination is sufficient. In a few instances unfavor able reactions have occurred after transfusion but care is necessary in their interp etation. Blood transfusion is contra indicated in all cases of ne phritis (r fatality) It is known that exsanguinated individuals sometimes cannot tolerate large amounts of blood In the case of one such patient severe cardiac collapse with chills occurred. A shock like condition occurred in 2 of the cases reviewed chills immediately after the transfusion in 4 an urticaria like exanthem in 3 and an increase in the tempera ture on the following day n.3. However all of these complications ran a harmless course calls attention to the fact that many of the reported serious reactions which might discredit the procedure will not withstand critical judgment

In the Surgical Clinic of the Un vers ty of Graz transfusions have been given in 468 homologous groups and 34 heterologous groups Of 13 un favorable reactions s occurred in the heterologous

groups

The Percy procedure was used in 49 cases and the Ochlecker method in only o The biological prelim nary test may nevertheless be done without hesitation. If the donor has well filled veins the venepuncture is done only with Ainst needles How ever the vein of the recipient is exposed

In the 403 transfusions which are described in detail complete coagulat on occurred 3 times Very small coagula remain in the efferent opening but the remaining blood may be transferred to another Perc flask and used The patients belonged to the folloing blood groups Group o 151 Group B 47 and Group AB 12 A tendency of certain blood groups to be associated with certain diseases could not be demonstrated The indications for the transfusions were as follows

r Acute loss of blood due to injuries and spon taneous hamorrhages Of 28 patients who were given 33 transfusions 20 were cured. It was possible also to stop the source of the bleeding. In many of these cases the transfusion undoubtedly saved life

In every case it was followed by improvement 2 Postoperative hamorrhages Twenty s x trans fus ons were given to 23 patients with successful results

3 Hæmorrbages from ulcer and carcinoma Of 60 patients given 72 transf sions 41 who were given 47 transfusions showed such marked improvement that they could be operated upon from four to twenty-one days later In the cases of 10 patients who were given 15 transfusions the results were so excellent that operation was not necessary

4 Hæmorrhages from the intestines progenital organs or lungs The source of these spontaneous hæmor hages is often at first doubtful I the cases in this group transfusion gave good results Patients with hæmorrhages from carcinoma of the intestines carcinoma of the bladder hypernephroma the prostate and ulcerating colitis could be treated symptomatically and some of them co. Id be operated upon successfully later. One case of severe hamop tysis 2 cases of severe epistaxis and 5 cases of hamophilic joint hamorrhages were cured. In the cases of 4 hæmophihaes the transfusion was lie saving

Cholæmic hæmorthages In contrast to Melchior Montsch and Wittmann the Graz Clinic obtained good results from pre operative and post operative transfusions in cases of cholæmic hæmor rhages Repeated large transfusions were given

6 Chronic loss of blood (secondary anæmia) In cases of marked anamia only i transfusion of from 200 to 300 c cm is at first indicated It is of interest that 2 cases of severe dysentery with snæmia were

also treated successfully

Tumor cachexia In cases of cachexia d e to tumor the transfusions caused marked imp ovement in the general condition. In the cases of 13 patients they were given pre operatively with an immediate Transfusion with roentgen treatment good result had a remarkably beneficial effect but transfusion without simultaneous roentgen therapy was without effect

8 Postoperative and posttraumatic shock Al though in these conditions there is a loss of vascular tone due to the sympathetic nervous system ex cellent results were obtained in 12 cases

9 Delayed convalescence A good result was obtained in 25 cases In 6 cases with uramia there was no result Blood transfusion requires healthy

10 Suppurative infections Of 61 patients with a suppurative infection who were given 04 transfuions, 25 survived Attention is called to the fact that patients in whom the focus could be attacked surgically had the more favorable prognosis. It is surprising that children with septic or infectious toxic processes responded better than adults. It is noteworthy also that general infections arising in the uterus with thrombophlebitis and pulmonary Four of 8 complications showed good results patients were given repeated large transfusions although hæmolytic streptococci were present in the blood Gangrenous cavities in the lung up to the size of an apple, and even gangrene of the entire right upper lobe healed without intervention. The author has found that the bactericidal index is markedly increased by transfusion with resulting immunity However, the transfusion must be given, not as a last resort, but as soon as possible after the onset of the condition. The Graz Clinic has made experiments with immunotransfusion in the stricter sense, that is, the transfusion of donor's blood which has been actively immunized by culture of the excitant of the disease. No apparent result was noted. The author therefore does not share the unfavorable judgment of other investigators regarding transfusion in suppurative infection.

rr Blood diseases The chief blood disease coming up for consideration was pernicious anæmia. In 17 patients given 25 blood transfusions for this condition the results were good but transitory.

12 Miscellaneous conditions A child with very severe burns and toxicosis was saved by 2 transfusions. In a case of erythrodermia exfoliativa and 2 cases of bronchial asthma transfusion had a transitory beneficial effect. Franz (Z)

## SURGICAL TECHNIQUE

## OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

The Cause of Death of Patients with WA The Cause of Death of Patients with rks W K

In this article 60 deaths following operation on 04 patients with cardiac disease are compared with o deaths following operation on 1 600 patients

authout evidence of card as d sease One fourth of the deaths in the cases of card ac disease were due to congesti e beart failure coro nary occusion and cerebral accident. Conditions which were not found in the patients without cardisc

Congestive heart failure was the cause of death no only 5 of the 404 cases and 3 of these 5 were in only 5 of the 494 cases and 5 of these 5 were cases in which an operation was performed on the disease cases in which an operation was performed on the heart itself a fact which would exclude them from areatt uses a race when would extraure from consideration in the calculation of the generative mortality. It is endent therefore that operative mortainty at its e nature interestore that congestive heart failure is not a major hazard of operation on the ell treated cardiac patient. Its effect as a contributory cause of death is difficult to

Along with infection congestive heart failure was determine accurately probably a factor responsible for the relatively greater inc dence of fatal postoperative pulmonary infections in the ca es of cardiac disease. In these

cases the incidence of pulmonary infections was 4 times as high as in the cases nithout cardiac disease Death from coronary occlus on occurred in about 2 per cent of the cases of card ac disease and fatal pulmonary embolism in a somewhat greater per

In the presence of cardiac d sease the liability to cerebral accident is somewhat increased by operation Because of concurrent kidney damage uræm a centage

is more frequent in cases of card ac disease In summarizing the author says that the cases of an auminiationing the author and that the cases of cardiac d ca e showed a greater operati e mor tal ty due to deaths from coronary occlusion and a tal ty que to deaths from coronary occusion and a greater inc dence of fatal pulmonary complications chiefly infection and embolism

## ANTISEPTIC SURGERY TREATMENT OF WOUNDS AND INFECTIONS

" II E D The Tr atm nt of Sterile Contaminated and infected W und C th M New II E D

Following a d scussion of the amous aspects of the treatment of sterile contaminated and infected wounds and his own experiences in wound treat wounds and H3 Own experiences in wound to ment the author draws the f llowing conclu-

A sterile wound that is not contaminated by infected tissue and secretions during operation usually remains sterile Infection of such a wound is

2 Contaminated nounds are ordinarily best made usually the fault of the surgeon ster le by débri lement and mechanical cleansing 3 As a rule the Carrel Dakin, treatment is safest

for massive contaminated wounds

4. In some cases of infection the use of Orr vase I ned gauze packs 15 very effective simple and economical

The Orr method with or vithout bacteriophage inoculation should be studied by all surgeons as it mountation should be statuted by an surgeous as it

contaminated and infected wounds JOHN H G MOCK MD

#### AN ESTHESIA

Leake C D The Role of Pharmacology in the Development of Ideal Angesthesia

The author urges more careful use by ph sicians and surgeons of the var ous sedant es hypnotics and anasthetics recommended to them by drug com panes. He emphasizes that greater support of the Council on Pharmacy and Chemistry of the Amer tean Medical Association is necessary cl nical trial and careful e "aluation of a drug accord ing to biochemomorpholog cal principles shoul i be required before the drug is distributed to the public A cardinal factor to be considered is the ratio of the toxicity of the drug to its eff ciency as compared with drugs in common use for similar purposes. Other considerations are (1) its possible harmful effects
(2) its mode of action and (3) the reasonableness of substituting it for drugs already employed In reviewing the latest advances in the search f r

an deal general anasthetic, I cake d scusses a new olatile c mpound called divinyl oxi le which has the structural characters ties of eth lene and ether It posses es man) destrable properties as it is is at posses es man) destraine propurites as it is 1 se irritat ng than ether its anæsthet ceff c ency is much below its min mal lethal dose it produces abdominal relaxation without causing intercostal paralysis and the patient awakens from the anasthesia it induces while nauses and comiting University properties are its high explosibility and the possibility of chemical decomposition with the production of

In a search for an ideal anasthetic Henderson formaldeh) de and formic acid disco red cycl propane a cyclohydrocarbon 1 ro had and involuced a managemate; unsaturates in the man desirable q alit c fethyl chloride Boi desirable q alit c fethyl chloride agents ar still in the exper mental stage

In the development of ideal an esthesia, technique will be a factor The Waters carbon-dioxide filtration technique is physiologically ideal Other factors involved are the prevention of water and heat loss from the lungs, asphyxiation, anovemia, and the

In discussing the pre-anasthetic and postaniesaccumulation of earbon dioxide thetic care of patients the author points out the deficiencies of the use of morphine, atropin, and scopolamine, and the pre-anæsthetic use of the barbiturites He says that atropin favors postoperative intestinal stasis, and morphine causes etimulation of the central nervous system outlasting the obvious depression He concludes that there can be no pre anæsthetic or postanæsthetic routine, each

pitient must be treated individually I or infiltration and subarachnoid anæsthesia he regards procun as best because of the wide margin of safety between its effective and toxic doses He calls attention to the value of the use of barbitals for the prevention of toxicity from local anæsthetics

In conclusion he says that for the evaluation of drugs the physician should rely on the findings of the Council on Pharmacs and Chemistry of the American Medical Association and the reports of university Inboratorics

Intrathecal Nerve-Root Block Some Contributions and a New Tech-I therington-Wilson, W nique Proc Roy Soc Wed, Lond, 1934, VVIII,

Mock spinal experiments with glass canals serving as spinal cords are ideal for establishing the confidence and judgment required by the spinal ands thetist In such experiments percaine stained with dve can be seen ascending in the vertical canal which contains a sugar salt solution of the same density as cerebrospinal fluid (1 007) agent should always be of the same temperature as the fluid receiving it as otherwise it will tend to drop

In the technique of inducing spinal an esthesia to the sacril canal which is employed by the author the patient is given 1/100 gr of scopolamine one hour before the operation and 1/220 gr half an hour after the first dose Ien minutes before the injection of the anns thetiche is given 112 gr of ephedrine On the operating tible he is rused to the sitting position and the anasthetic is introduced into the spinal canal at the level of the third lumbar space. Ten cubic centimeters of 2 1 1 500 solution of percaine are injected over a period of fifteen seconds. On completion of the injection the patient is kept in the sitting position for twenty seconds and then placed in the dorsal position, first at a slope of 15 degrees for three minutes and then at a slope of 10 degrees for the

for operations on the perineum and limbs the duration of the operation rone of anythesia is low its upper boundary being the 11th lumber nerve I or operations on the lower abdomen and privis a middle zone of an esthesia bounded above by the tenth thoracic nerve is indi-

cated For operations to be performed on the upper abdomen and lower thorax, the zone of anæsthesia is high, its upper boundary being the fifth thoracic

For low spinal anaesthesia the author injects 10 c cm of the 1 1,500 solution of percaine and keeps nerve the patient in the upright position for twenty sec-For medium spinal anæsthesia he injects 12 C cm of the solution and keeps the patient in the upright position for thirty seconds. For high spinal anæsthesia he injects 15 c cm of the solution and keeps the patient in the upright position for forti

Forty-six operations have been satisfactorily perseconds BENJAMIN G P SHAHROFF, M D formed with this technique

Evipan-Sodium Arresthesia Holtermann, C Evipan-Sodium Arrestnesia Evipan-Biological, Not Strictly Schematic Evipan-The Use Sodium Dosage for Full An esthesia of Evipan Sodium for the Relief of Pain in Spontaneous Labor (Zur Tvipin Natrium Var-Lose Biologische, nicht starr schematische Pripan-Natrum Dosierung zur Vollnarlose, Pripan-Natrium Invendung zur Schmerzlinderung bei der Muenchen med Welnselir 1933, Spontangeburt)

Evipan sodium is not an absolutely harmless anæsthetic which can be employed for the induction of full anosthesia on every occasion Parenchymatous changes in the liver constitute a strict contra-indication to its use I atalities have followed evipan sodium anasthesia even in cases in which the liver was normal However, these were doubtless due in part to incorrect dosage The dosage is most important. The schemes of dosage based on age and body weight are not only unreliable, but dangerous Because of variations in sensitiveness to evipan sodium of different individuals, there is no scheme of dosage that is entirely reliable. It is much better to establish the amount of evipan sodium necessary to induce non-wakable sleep, which is easily determinable for each individual, and then vary the additional dosage necessary to reach the tolerance dosage according to the expected duration wakable sleep is characterized by the onset of snorof the operation ing respiration, falling of the Jaw, and muscular relaxation. The additional dosage amounts to from one half to one and 2 half times the sleeping dose I or interventions of short durition t is best to keep the additional dosage at the lover le el In more than 1,600 evipin sodium anresthesias for ginecological interventions of short duration sufficient annesthesia was obtained in \$5 per cent without serious accident except one death due to an unrecognized hepatosis

In obstetrics, the dosage is different. On the basis of more than 1,000 observations the author recommends e span sodium encesthesis for the reliet of pain in the passage of the head in spontineous labor In the first stage of labor evipan sodium is contri-indicated. There is no clinical evidence of trens tip

of the evipan sodium to the child The adminis of the extract southern of extract sodium pro 550 duces toward the end of the third stage of labor a ourcs covard too end of the total stage of sacota was able was able sleep. Ith complete amongs a which has the sleet on the birth processes and lasts for from nulle enect on the onth processes and hasts for from ten to I senty minutes. For episiotomy and repair of the perineum the dose may sometimes be in or the permental the dose may sumetimes be at creased by from 2 to 4 c cm. In order to exclude an

unfavorable effect from this increased dosage on the stage of placental delivery the author recom the stage of placental servery the suggest recommends the simultaneous intravenous administration. means the simultaneous intravenous auministration of a preparation of posterior lobe of the pitutary or a preparation of posterior some of the should be done only when the labor can be terminated

Framett J L Subaracinoid Injections of Fro cane Hydrochioride Th Quantitative Effects Clinical Doses on Sensory Syngustr it cand of Clinical Doses on Sensory Syngustr it cand quickly Motor Nerses J Am M A : 1034 c 4 5

The thirty four pat ents, whose cases are reported true timey took par curs minute cares are reported type ented both seres and a wide range of age. In the cases of the thy one spinal anasthesia as in duced with processine by drochloride, and in the case of ource with procume ny concurred with pantocaine one spinal anaisthesis was induced with pantocaine one spinial anicasine was induced with particular to the cases of two general anicashesia was induced by inhalation At short intervals thereafter de terminations were made of the amount of block pro duced in the sympathetic sensory and motor uncer in the sympathetic actions of the previous by a wide range of doses and concentrations. nerves by a wave range on coors and concentrations. These determinations are presented graphically and

The physiological sequence of nerve blocking in the bull-nondiern seducate or perse marking in spinal angenesia was found to be as follows:

(1) sensory perves (2) sympathetic nerves and
(3) notor nerves However it is likely that the analyzed 3) motor nerves nowever it is their that sympathetic nerves are the first to be blocked. As of the means of measuring sympathet c block is neces une means or measuring symptotics conocs is necessarily indirect depending on the rise of the surface somy manuer acreamns on me are a me same temperature of the area supplied by the blocket temperature of the area supplied by the old ner es delay is recorded after sensory block. ner es ueux is reconuen aiter sensory proces and (2) order of recovery is (1) motor ner es and (2) or recovery 13 (2) named ner es and (2)

tine Fract onal block is shown to be possible The pro duct on of block of one 5) stem authout block of another by var ation of dose and concentrati n s another by variation or oose and concentrating feasible. Sixty milligrams of procame in a concen tration of from 1 5 to 2 per cent has been demon station of hours and or year of the first in cutaneous strated adequate to produce a rise in cutaneous strated adequate to produce a rise in curaneous temperature to 2 le el assumed at the pres nt time u muicate complete vassumacacion Complete anosthesia is not necessary to secure this 1 asod lata

The time required to block all three types of herves is d scussed. A complete sensory effect nerves is a scussed a comprete sensory curs. Further than the sensor of usuany untained in from nor to cignt in nuces repractical purposes an interval of thirty minutes practical purposes an interval of thirty minutes after inject on should be sufficient to produc a after inject on shoons we summer to produce an authorized the surface temperature due to matinat fac in the Surface temperature que to block of the Sympathetic vaso onstrictor nerves The time sympathetic 7450 onstricing nerves of the sympathetic 7450 onstricing nerves

motor block is variable ranging from three to twenty three minutes. All of these figures vary twenty three minutes. An or these ngures vary greatly according to the dosage and concentration

Backer C ndahl N Investigations on the Changes in the Scinni Fluid Mres Schmidter state of the Changes in the Scinni Fluid Mres Schmidter state of the Scinnish Scinnish Scinnish Scinnish Scientific Scinnish Scientific Sci

In 138 cases of operation performed under spinal an 430 km200 vs operation performed univer spinal anæsthesia spinal punctures were done twenty four amesuresia spinas jumetures were come exent your forty eight, and seventy two hours after the operation At the end of twenty four hours an increase in the cells of the sp nal flu d was found in 6 per in the cens of the 50 has not a was found in 9 per cent of the cases but at the end of forty eight and cent of the cases but at the end of forty eight and seventy to 0 hours an increase was apparent in only seventy in 0 nours an increase was apparent in our, ago and 18 per cent respectively. In some of the 30 and 10 per cent respectively an some of the cases the anasshetic was a 3 per cent solution of novocain in spinal flu d and in others, the 11500 nuvocam in spinas in u and in dusers are 1 300 solution of percain in hypotomic salt solution recom someton of percano in mypocopic sate someton recommended by Jones. An increase in albumin and globuln was found in one third of the cases but grounding was jouing to one third of the sugar content.

An increase in the sugar content. of the spinal fluid and blood was found in 60 per

or the spinal hum and proof ness routent of the cent but an increase in the sugar content of the The largest number of cells was 1 050 per cubic spinal fluid alone in only 24 Per cent

are largest number of ecus was 1 950 per cube. in a week and cases in which percain was used to lowest in the cases in which percain was used in east in the cases in which percain was used it was impossible to ascertain any relation be

t went the increase in the cells and the type of anies t rees the sacrate in the cent and the event at the snessheata. The frequency of headarh de the snessheata. The frequency of headarh de pends to only a m nor degree on the include only a m nor degree on the include only of the contract of peuos to only a m nor universe on the success of the cells only I of the 3 patients with a hi h cell court in the cells of tems comy to the 3 Marients with a min terrord be tyeen headache and an increase in the albumn

The hamolytic power of the anasthetic differed in are sammely the power of the analytic in nervous each case. No relation between it and the headache globul n or sugar

The findings dd not explain the occurren e or could be ascerta ned

intens ty of postanzishetic complaints Goldschmidt S. Radn 1 S. Lucke B. Muller

oscinius S Ra of 1 S Lucke B Muller S Ra of 1 S Lucke B Muller S P and Others Di Inyl Ether Experimental and Cl nical Studies J Am V 451 934 c 2 Diving lether is an organ c compound related to envinos cines es un organ e compound renate us an organ e compound renate us un organ e compound renate us de la compound

trusseur and erner it is a voi the uquid out the an muscore and explosive on exposure to ign it decomposes into formic acid and form idea de it wavenesses now serun; acus and sorm seen see has an ethere I odor. As prepared for anothers a II contains also line alcohol to pre-ent-too rap, 4.4.4. contains and a substance to prevent chemical decom-

This a cide 5 based on 46 chinical cases a use a cue s paseu on 40 cunical cases of anasthes a induced with d vinyl ether and studies of aurasines a induced with a vinyl etiler find a sudmay the effect of the anasthet con animals. Tore than 400 of the patients were anasthetized by the regular pos tion pital anæsthetists In 90 per cent of the cases the open-drop method was used In 10 per cent, the divinyl ether was employed in conjunction with nitrous oxide and oxygen. The ages of the patients ranged from five months to eighty-two years. Fifteen patients were under two years old and 12 were over sixty. The operations were those most frequently performed on a general surgical service.

The first stage of anæsthesia obtained with divingle ther is very short. Consciousness is lost after the first few inhalations. There follows then a light stage of surgical anæsthesia in which a rhy thmical oscillation of the eyeballs occurs. Complete surgical relaxation is obtained which permits surgical procedures that are not excessively prolonged. The excitatory or second stage occurred in only 2 per cent of the cases reviewed. The average time required for relaxation for laparotomy was about three and a half minutes. Of the 461 anæsthesias, only 2 were followed by respiratory complications. In the majority of the cases a mucus discharge occurs during the administration of the anæsthetic and ceases as soon as the administration is stopped.

Cyanosis occurred in only 9 of the cases reviewed In 461 cases the drop in the blood pressure during the anæsthesia was less than 10 per cent of the preanæsthesia level The anæsthetic was used in all types of cardiac disease without deleterious effect It was safely administered for a period of two hours and fifty-one minutes The amount of divinyl ether used was about 2 c cm per minute Recovery from the anæsthesia was rapid, occurring in from thirty seconds to five minutes In a case of radical mastectomy with a duration of one hour and twenty minutes, recovery occurred in twenty seconds Postanæsthetic vomiting occurred in only 95 per cent of the cases Repeated urinalysis failed to show either renal or hepatic damage due to the anæsthetic In third-stage anæsthesia the average content of divinil ether in the peripheral blood was 18 mgm per 100 c cm as compared with 132 mgm of di-ethyl ether in the peripheral blood of a patient in the same state of anæsthesia induced with the latter anæs-

Experimentally it was found that death caused by diving lether poisoning is usually due to respiratory failure. Artificial resuscitation was effected quickly in all cases. Pathological investigation showed the liver to be the only organ susceptible to the anæsthetic. The type of damage was a central lobular necrosis similar to that caused by chloroform poisoning. This resulted only in dogs an esthetized for a prolonged period. No liver damage was caused in monkeys anæsthetized under similar conditions.

In conclusion the authors state that, according to their experience, divinyl ether induces rapidly and maintains evenly a surgical anasthesia with good relaxation from which the patient recovers quickly it causes no untoward effects on the blood pressure or respiration and its use is followed relatively very seldom by excitement or postanasthetic vomiting or respiratory complications

BENJAMA G P SHAFIFOFF, M D

Stimpfl, A Is Intravenous Evipan Narcosis Safe? (Ist die intravenoese Evipannarkose ungefachrlich?) Muenchen med Wehnselr, 1933, 11, 1429

As in the use of all other an esthetics, there is a certain amount of danger in the use of evipan sodium which must be recognized to be avoided The author discusses the question as to where the disturbances sometimes associated with evipan-sodium narcosis arise and whether they can be ascribed to the evipan itself Among the local disturbances are thromboses at the site of the injection. In the author's material at the Tuebingen Gynecological Clinic thromboses have not been observed. The author therefore believes that the use of evipan sodium is associated with less danger of this complication than the use of other an esthetics which have been injected intravenously for a long time without thought of this sequela With regard to the respiratory and circulatory disturbances recorded in the literature, Stimpfl says that the doses given in the cases reported were as a rule relatively too high and the complication might have been avoided by a dosage adapted to the individual case These disturbances may usually be controlled quickly by coramin, lobelin, cardiazol, carbon dioxide, and artificial respiration

Éleven cases in which death occurred during evipan narcosis are reviewed. In these cases also the principal factor was overdosage, especially in the presence of sepsis and severe general organic disease.

As the impression was gained that certain disease conditions predispose to complications, an attempt was made to determine the contra-indications to the use of evipan narcosis Special attention was paid to liver injuries, the supposition being that the drug is broken down chiefly in the liver Heart injuries and abdominal diseases with involvement of the peritoneum, sepsis, severe cachevia, and affections of the thyroid gland particularly predispose to unfavorable reactions. In most cases of complications, however, a marked circulatory insufficiency was probably present, the patient being therefore already unequal to the demands of evipan-sodium narcosis A marked fall in the blood pressure was noted repeatedly and may have played an important role. However, in spite of all of these severe disturbances, no absolute contra-indication to the use of evipan sodium, especially for brief and induction narcosis, is recognized. Reduction of the procedure to a rigid formula will lead to disastrous

Dosage tables are only approximate. The amount of the evipan sodium solution necessary for complete narcosis can be estimated only during the injection. The most important criteria are dropping of the lower jaw and the onset of deep snoring respiration. When these are noted, 2 or 3 c.cm. more will usually be sufficient. The less the patient requires up to this stage, the less the additional amount to be injected. The injection must not be given too rapidly.

The author concludes that when used for a brief and author concinoes that when used the a priet of induction parcosis and administered slowly with constant obser atton of the pattent and according or induction parcosis and administered slowly with constant ouser ation of the particular case e pan to the requirements of the particular case e pan

percain Anæsthesia A Review of sodium is relatively safe ter A. U. Percain Angesthesia. A Review of the Use of Percain for Local Angesthesia. w th the Use of Percain for Local Angesthesia with Tomiderations Referring the Atasima State of Considerations Referring the Atasima State of Percains the University of the High Percains of State o pulsh Dosa ut Grund ar o h ock nt genord on N gitung! lie) Il spid 1933 P

Like novocain percuin produces a prolonged anæsthein effect and a still longer hypræsinesia. In auxisticit cuect and a min jouger hypersticial and thetic ef and the most feet A deadwantage is that it is one of the most tect. An assuvantage is that it is one of the most toric of local anasthetics being from two to three times more toxic than cocain and from fifteen to t mes more toxic than novocain On mucous tainty unies more wite than novuesing on mucous membranes percain is about ten times as effective memoranes percain is about thirty times as effective and on the cornes it is about thirty times as effective and on the cornea it is about thirty times as succeive as novocain although it is only about two or, three as novocain attrough it is only about two of tiree times more toric than the latter 11 is easily dia solved in water Solutions prepared with salt solu solved in water Solutions prepared with sait solu-tion are stable and may be steril sed repeatedly by tion are static and ma, he stern red repeatenry by boiling It is an alkaloidal salt which with an al boiling it is an ateniodal sait which with an election changes into the only slightly water

nuple alkanou percamum pas cum For infiltration anaesthe 2 2 0 05 per cent solut on solnple alkaloid beccaming pas cing Formulation and state a 2005 percent solution preferably with the addition of adrenalm is employed for nerve block anosthes a 200 per cent proyed for nerve orock amesines a 40 r per cent solution which is equivalent to a per cent solution of novocan 1 used. Adrenain should always be of novocain 1 used Adrenain should always be added as it considerably reduces the toxicity of the added as it considerably reduces the foxicity of the percain. The angesthes a lasts for from three to five

hours and the hypersthesia for from s x to ten hours nours and the hypestnessa for from s x to ten hours. Anæsthesia begins in from five to ten minutes after Anæsthesia begins in from tive to ten minutes after the injection. Potassium sulphate seems to incredible the injection. Experience has demonstrated that per the effect. the effect raperience has demonstrated that per cain is excellent for lumbar anasthesia. For this cain is exceused for immost anasthesia from the type of anasthesia from 6 to 10 mgm are employed type of anasthesia from 0 to 10 mgm are employed. The anasthesia begins from ten to twenty five the anassinesia pegus from ten to twent, he minutes after the injection and lasts for from three minutes after the injection and sasts for from three to four hours. It is followed by a long period of hypersthesia. As early as from one and a half to two hypersthesia. nypasinesia As early as from one and a natio two hours after inparotomy strong boxel pensialsis sets Lot sectal and batasactas anasthesis toon to in For sacrai and parasacrai and sometimesia from 40 to 60 mgm should be employed. For utenat 10 00 mgm snound ne employed for uterns anæsthesta 30 mgm are najected into the para metruum. For abdominal ca nty anæsthesia perçan merium tor abuominas ca ity agressional ferrain is more satisfactory than novocain on account of is surface action. Cystoscopic examinations and oth r surface action cystoscopic examinations and our reversal procedures may be undertaken without causing pain after the injection of from 30 to without causing pain after the injection of from 30 to 40 mgm of percain solution with the add ton of 40 mgm of percain solution with the add ton of adrenalm. In dermatology percain is used quite autemann in dermatones) percain is used quite frequently to refeve the pa n of ulcus crurs and trequently to refeve the pan or useus cruta and fissures. Combined with menthol it completely re besures Combined with mention it compress) to bever itching for a long time in such conditions as prurtus of the anus and vul a and ecsema For these it is employed in outments

tness it is employed in onements.

The reported cases of percain poison me are dis

The prosoning is manifested usually by cused inte possening is manuscice usuasi) or clome and less frequently by tonic convol ons especially of the lumbs and masseters. Occas onally espessari) of ene unios and masselets. Occas onally it is accompanied by op sthotonus. Resp. tatory d.s. the accompanies with deep cy anosas are type cal phenomena typhones with deep cy anosas are type cal phenomena our coances with queep cyanosis are typ cal paenomena.

Death occurs from resp ratory paralys s The ha is of the body in which the use of percain seems to of the body in which the use of percuin seems of the body in which the head neck and gental be most dangerous are the head neck and gental the most dangerous are the head neck and gental the most dangerous dose without, it regi a the maximum therapeutic dose without one addition of adrenalin 5 probably 1 mgm per like gram of bod; we ght

## PHYSICOCHEMICAL METHODS IN SURGERY

#### RADIUM

Quimby, E. H. The Determination of Dosage for Long Radium or Radon Needles Am J. Roentgerol, 1934, 2831, 74

Since it is necessary to know the distribution of irradiation in the volume of tissue to be treated, methods for determining such information have been developed. Greater difficulties attend the obtaining of such information when interstitial sources of irradiation are used than when external methods are employed. Methods for determining dosages depend upon direct measurements with the use of small ionization chambers, as has been done by Stahel and Mayneord.

The author's information has been obtained by correlating the results of biological and chemical experiments The determinations were arrived at by the formation of necrosis in rabbit muscle, the production of erythema on human skin, and the bleaching of butter. The results thus obtained agreed very closely with those obtained by the ionization measurements Previous work was done, for the most part, on tubes not over 25 cm long The object of this work was to obtain data from radium containers of greater lengths Determinations of irradiation from a radium tube in air have been made. If the tubes were placed in water or tissue, the intensity of irradiation differed from that in air because the absorption of irradiation by the intervening matter decreased the irradiation and because the scattering from the surrounding matter increased it The comparison of the calculated field for a tube 2 o cm long and the experimentally determined field for the same tube in water or tissue agreed throughout surprisingly well The comparisons are illustrated by a figure A table showing a comparison between the calculated data and the average of the experimental results demonstrates that up to a distance of 2 cm there are no variations as great as 10 per cent Beyond this point the experimental values become increasingly larger than the calculated values until, at a distance of 4 cm, a discrepancy of 25 per cent is reached. Thus far the experimental values were obtained entirely from the bleaching of butter The technique of determining the intensities photographically and by ionization is described On the basis of a comparison between calculated and experimental data for 15- and 2 0-cm implants, it was assumed that the calculated data for longer implants would be accurate enough for the first approximation to the distribution in tissue

Charts are given showing intensities for increasing numbers of needles 1 5, 2 0, and 3 0 cm apart. These charts or the curves constructed from them may be

used to map the field around any combination of needles Figures for 4 o- and 6 o-cm needles show the variations in intensity with variations in the number and spacing Planes perpendicular to the needles at their centers and at their ends are shown Isodoses taper toward the ends of the needles These figures and curves show the minimum dose delivered within the volume irradiated, which is considered extremely important. As has been shown previously, the erythema dose from a point source at a distance of 1 o cm is approximately 100 mc-hr Thus these data are taken as an arbitrary erythema dose In the charts the numbers represent percentages of this dose, therefore, the percentages of 100 mc-hr at 10-cm distance Hypothetical cases are discussed. With this type of irradiation it is necessary to know what constitutes the necrosing dose. In experiments on rabbits it was determined that 20 erythema doses produce complete necrosis In the hypothetical cases the area is shown which would receive 20 erythema doses and therefore would undergo necrosis

The efficiency of various spacings and the most economical arrangement indicated for the delivery of adequate irradiation within a given area are discussed Thus far the findings indicate that any mass of tissue not more than 3 o or 4 o cm in thickness may be adequately irradiated by a series of needles distributed in its central plane parallel to one another and not too widely separated. In very thick lesions the irradiation required per needle would become so large that grave overdosing with consequent necrosis would occur in the central portion of the mass. In such cases it becomes necessary to use two or more planes of needles in parallel lines The author gives figures showing intensities in various planes with the use of different arrangements of ten 6 o-cm needles The effects of different spacings and distances of 20, 30, and 40 cm between planes are shown In general, the needles in a plane should be spaced about as far apart as the distances between two planes of needles. If it seems advisable to irradiate the margins of the mass more strongly than the center, the needles should be closer together than the distance between the planes

I he number of erythema doses delivered by a certain number of millicurie hours with a certain arrangement and, conversely, the number of millicurie hours required to deliver a desired number of erythema doses with the same arrangement are reported. The article includes charts and figures for these computations. Various individual instances with arrangements of needles as carefully computated are discussed. Dosage tables are given for needles from 40 to 80 cm in length. Doses for specified points in a plane perpendicular to the plane

.

of the needles and three fourths of the distance from of the needles and three fourths of the distance from the center to the ends are given for needles 2 o cm toe center to toe eaus are given for needles 2 or the apart 100 mg br per needle and again with two planes of parallel needles. From this table it is bossiple to estimate the minimum dose delivered the minimum dose delivered possible to esumate the minimum gose utilizers of vituin a volume of cissue of a given commer of millicure hours or to determine how many millicure multiure nours or to determine now many militure hours should be given to deliver the desired dosage. noute should be given to deliver the desired dosage. The placing of the series of parallel needles outside Ine placing of the series of parallel needles outside and ins de di the tumor is discussed. No one method seems to have outstanding advantages over the The problem is to give the minimum dosage of irradiation required with minimal necrosis

The technique of the treatment of carcinoma of the breast by Keynes is taken up and computated by press of heynes is taken up and computated of the tables. The primary growth under means of the tables are technique received from 6 4 to 7 4 erythe heynes. Actines technique received from 0 4 to 7 4 crythems doses ma doses the pectoral's major 4 crythems doses ma moves the pectoral s major 4 erythema doses the axila 4.4 erythema doses and the infra tne axiua 4 4 erytnema goses and the inita clavicular and supraclavicular regions 5 erythema ciavicular and supractavicular regions 5 crystiema doses. A minimum of 2 crysthema doses was 81 en min's between the members of each pair of needles min's y between the members of each pair of needles in the intercostal spaces. in the intercostal spaces Augment and its surrounding treatment the primary growth and its surrounding tissues receive from 6 to 8 erythems doses and the unames receive from a to 5 crythems doses as a pre-drainage areas from 4 to 5 crythems doses as a

innimum. In summar zing the author states that the cal an summer and the sumor states that the call culated and experimental data regarding the dis tapaten and exherimental data tedatonid toe dis courses of transaction around certain radiation around needles agree The distribution of tradiation around minimum necures agree and a so cm, in length and single needles 40 60 and 80 cm, in length and single needes 40 00 and 50 cm in length and around certain typical groups of these needles is shown by charts. When a series of needles are placed. m a blane baraffel with one another and minoring and on courts. Abou a series or occores are bracen in a plane paramet with one another and uninormy series has very little effect on the dose at the other nas very name there on the dose at the other.
This statement applies also to groups of needles several centimeters from each other eedies several cenumeters from each other Threshold erythema is taken as a unit of t sue intespoid etytoedis is taken as a unit or asset dosage. To produce complete accross in rabbit nosage 10 produce complete necrosis in caustinuscle 20 enythema doses are required. The same

muscre 20 crycaema doses are required Lac same total of miligram bours produces practically the total or ministrain mouse biomarcs practically the necoles are used
The proper spacing of needles is d. cussed. For a The proper spacing of needles distances of t S and single series of parallel needles. needles are used

20 cm are recommended. In two series in parallel 20 cm are recommended in two series in paralel planes the needles should never be placed farther planes the needles should never be placed farther apart than the d stance between the planes. Acedles apart than the distance between the peaces. Needies should always be longer than the lesion. Since the number of taillient e points tedrited to definet a numaer of minimum dose produces about the same specified minimum dose produces about the same specified minimum dose produces about the same amount of necrosis when delivered by any practical amount of necrosis when delivered by any practical arrangement of the arrangement or needles the arrangement of the needles may be determined by deciding (1) whether needies may be determined by detring the needles in bound tisene (3) whether it is desirable to sood the production of necros s in normal tissue by putting the needles in the les on and (3) whether or not the one meetines in the less on and the normal tissue beyond perspuery of the reason and the normal theory of the mass the article contains tables intended of the mass. interior of the mass. The article contains tables showing practical arrangements of needles by which snowing practical wrangements of needles may be tissue dosage in ficated in specified cases may be termined in the discuss on of this report Cutter asked if determined

the mention of S or 1 erythema doses meant the the meanun of S of 1 erythema goves mean the amount of tradiation received by the ent re tumor amount or irradiation received by the entre tumor mass. Mrs. Quimby answered that it meant that every point rect. ed that much and no po ntree yed every point rect. ed that much and no positive yed. point received that much and no point received Cutler stressed the necessity of sterilizing the hess came successed the personal of security of security of the pe ipnery of the 1 sion without over the discussion recross of the central portions of the tumor

sauces suggested the use of stronger sources around the periphery and teaker sources in the OCHER In closing the discussion stated that it is masses

impossible to delver homogeneous irradiation impossible to delver nonnogeneous Meatmannia throughout the entire mass by interst trail irradia, central portion incongnout the entire mass by imetse unitarious tion. Her terms refer to minimum dosage delivered tion the terms refer to minimum dosage dentered author a spec field region since that is the dosage with n a spec near region since that is the dose entire the spec near region since that is the malignant which determines whether or not all of the malignant. tissue is destroyed. When it is des ied to magnate tissue is aestroyed to be greater extent than the central portion the dosage required can be ascertained by portion the dosage required can be ascertained by consulting the tables Quinney set u that she to can't be treated to specify dosage as that is the function of the classical treated to the classical treated treated to the classical treated trea presume to spec () nosage as that is the induction of the clinician. However, when the dosage has been decided upon the infirmation contained in the reaccused upon the lat that on come act in a port will enable the clustean to deliver the d stred

dozage in the most efficient manner

## **MISCELLANEOUS**

### CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Moore, H., O'Larrell, W. R., Moriarty, M. A., and Cremin, W. Ultimate History of a Case of Acute Spontaneous Hypoglycemia. Int. M. J., 1934, 1, 2-7.

The patient whose case is reported was a woman twenty-seven years of age. When she was first seen she was in coma and the sugar content of the blood was 35 mgm per 100 c cm. Recovery followed the intravenous injection of glucose. The acute hypoglycemia was associated with "amylaceous dyspepsia." This also was treated with a successful result. A mild continuous hypoglycemia persisted, the blood sugar content ranging from 62 to 78 mgm per 100 c cm.

About two and a half verrs later the patient became comatose for about two hours, but recovered without treatment. Three and a half years later she was re admitted to the hospital in a comatose condition and died. At that time the blood sugar was 66 mgm per 100 ccm and there was no clinical

improvement after glucose therapy

Autopsy disclosed slight congestion of the liver and bronchopneumonia. The results of biochemical analyses of the liver for glucose and total carbohydrate suggested that the liver was poor in gly cogen before death.

The cause of the acute and chronic hypogly camia was not determined. Hyperinsulinism was considered, but there was very little evidence in favor of this diagnosis. Howard L Alt, M D

Moore, H., O'Parrell, W. R., and Headon, M. F. Spontaneous Hypoglycemia with Hepatitis Brit. M. J., 1934, 1, 225

Up to 1931, twenty-four cases of acute spontaneous hypoglycemia were reported. Since then several others have been added. The authors report a case of the condition, discuss the pathogenesis, and consider the relation to it of such factors as insulin, adrenalin, pituitrin, hyperthyroidism, and hormones of the ductless glands. They present evidence indicating that hepatic disease may produce hypoglycemia by interfering with the glycogenic function of the liver

The case reported was that of a woman forty years of age who was admitted to the hospital in a comatose state. After the blood-sugar content of 20 mgm per 100 c cm had been increased by intravenous glucose therapy, she regained consciousness. Later she became comatose again and died in spite of a normal blood-sugar content. Postmortem examination revealed changes in the liver of the nature of a subacute parenchymatous hepatitis.

Analogies are drawn between this case and the hypogly camin of hepatectomized dogs reported by Mann and Magath. The authors believe that functional hyperinsulmism may be a cause of hypogly camia, but conclude that in the case they report the parenchy matous disease of the liver was probably responsible. Howard L Alt, M D.

Balado, M., Puiggari, M. I., and Alvarado, E. G. Familial Pscudo-Acromegalic Disease of the Skin and Bones (Enfermedad osteocutánea familiar pseudo acromegalica). 1rch. argent de veurol., 1933, 18, 61.

The authors report the occurrence of pseudoacromegatic disease of the skin and bones in two brothers A third brother had died of colitis after having had the same disease for several years. The father and mother were first cousins. The father had had syphilis, but the two brothers had a negative Wassermann reaction and the histological picture of their slin lesions was not that of syphilis. The discuse was characterized by thickening, wrinkling, and shing redness of the skin which began on the forehead and extended to the rest of the face. In addition to the subscute inflammators infiltration of the dermis which caused this appearance there was hypertrophy of the sebaceous glands. The usual chronic inflammations of the skin such as tuberculosis, syphilis, and leprosy could be excluded, although in the beginning the condition somewhat resembled leprosy

Roentgen examination showed enlargement and clubbing of the ends of the fingers. There were no marked changes of the sella turcica. The anterior and posterior clinoid processes were somewhat thickened, and the bones of the skull seemed to be thicker than normal, but the maxillary bones were

not enlarged

The disease began when the patients were between twenty and thirty years of age and had been developing for years. Apparently it was caused by hyperfunction of the hypophysis

Roenigen treatment cured the inflammatory infiltration of the skin, but had no effect on the

hypertrophied sebaceous glands

AUDREY GOSS MORGAN, M D

Lahey, T. II., and Eckerson, E. B. Presacral Dermoids 1m J. Surg., 1934, xxiii, 30

Teratomata and dermoids are produced by the complicated embryological development in the formation of the rectum, anus, and caudal end of the spinal cord and its appendages. These tumors occur either in front of, or behind, the sacrum and coccyx. Most of the sinuses and cysts are located posteriorly, where they are known as "pilonidal

The presacral tumors have no connection situates the presental entires have no connection

with none of the recum except enrough pressure.
They are more common than is generally believed. The presacral tumors are man fested by a draining sinus at the up of the coccyx or between the same and sinus at the up of the coceyy of netween the annus and the coceyy pain due to pressure on the rectum of ine coccyx pain one to pressure on the recome of pelvic neries and interference with publishing a hose bowel. They are lined sith embedding a hose of the company of the co is constantly excreting and indergoing desquama They can be cured only by radical extirbation In three cases reported by the authors the tumor in three cases reported by the authors the tumor as approached posteriorly by removal of the coccys and the nound treated as in perincal resection of the sun the mount treated as in between tesection of the the cases of battents mith annace and apscesses about the cases of patients with subjected to repeated the anus who have been subjected to repeated

Schreiner B F and Wehr W II Primary
Mallsoant Tumors of the Foot A Report of
Thirty Sween Case operations

The 37 malignant tumors of the foot reported by the 37 mangoant cannot among 10 450 cases of malignant d scase observed in a period of interest malignant d sease observed in a period of ninetern period of the period

Lignmented nævi should also be dealt i ith rad rad cally

of 8 squamous cell carcinomata 2 occurred at a or o squamous cen carcinomata 2 occurred at a site, where calluses had been treated by cay irrad ation several years previously Treatment of plantar warts by irrad at on must not be exercise scally Squamous cell careinoma can be healed if treated by

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Schreinet B.F. Squamous Cell Carcinoms of the Skin Am. J. Cs. 1933 1 8 9 thel oma

Two hundred and twenty seven cases fsquamous cell cancer of the skin (acanthoma) which were treated prior to 1927 are reviewed. In 14 both types of enthelioma (beat and pasal cell) here bresent in or christian A history of injury was given in 39 cases one testion A mister) of cancer in 25 One hundred and a fam by history of cancer in 25 One hundred and a sam by movers of cancer in 27 One monuted and fifty six of the patients were males. A large and hits at at the patients were engaged in occupa tour which exbosed them to inclement weather

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and those without involvement of bone cartilage The 156 cases in Group 1 those w thout avoi e ine 150 cases in Uroup 1 those w thout new carellage tendons or lymph glands tendons or lymph glands ment or none carenage (CO) the tot patients who were treated by irradial on O) the tot patients who were treated by irradiat on Ut the 104 Patients who were followed up after (%) years 57 (48 per cent) are followed up after (%) years 57 (48 per cent) are followed up after (%) 44 per cent ( were name and wen of 44 km and thin two years properties of the disease 32 drd n thin two years after the treatment

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The author gi es a brief review of the histolog cal and clinical symptoms of the disease which knett and cames symptoms of the disease water acted erysipelas caren matesum. It appears ner cause eryspens caren maiosum it spread only in a count in a committon has been observed only in carcinoms of the breast in which it occurs either in earchenia or the areas in ministration resembling

as an acuse of a circuit said ministration resembling both crystiples and an inflammatory caronomatous In the case reported by the author the lesson was located in the chest, but apparently did not arise in 1DV2SIOR

the mammary glands The patient was a man lorty years of age who three mouths previously noticed a years or age was times moutas previously nontee a small infiltrated red spot in the left axills. Follow and in minister ice show in the fer some the shot the supplication of truthol combinerses the skin on not make the city to the class where it formed sharply portrading to the class where it formed sharply portrading aggregated mortal aggregated species and and aggregated species and and aggregated species and and aggregated species and an analysis of an aggregated species and aggregated species aggregated species and aggregated species aggregated aggreg Biopsy re ealed an infiltration of small cell and knopsy re casea an inimiration of sinan tell and colonies of cancer relia located instruction could be d subcotaneously. subcovaneously a pionary common or in the correct in the lungs by ray examination or in the abdomen fro see es of tray traditions were abdomen fro see es of tray traditions. g en At the end of a year examination revealed to indammat on and only a certain induration of the skin in the previously diseased area and the pa tients general condition was, good. The author nense 3 Schera Commune Nas Evon 4 see autom believes that this was 2 case of primary erys pelod carcinoma of the skin

The Pre ntion of Cancer L

Cancer appears to be a myster ous disease because of its pracently capricious moderice. In the many Cram r W portiv of asts the reason why one of two ind viduals ng under apparently the same conditions de ng under apparently the same conductors ac ma us nuyu wu On iduotauce ou the boint makes It imposs ble to pre eat the disease Consideration of experimental and statistical data leads to the con ch on that the inc dence of cancer cannot be telet ted to the oberation of an extrusic factor of chronic ten to the observious or an extranse restor of enough agroup rriat on alone but must be due to the combination of such as ext in factor and an intra size of the problems as ext in 11 th complex nature of the problems as ext in 11 th complex nature of the problems as ext in 11 th complex nature of the problems in born a nature of the problems are not the problems as the problems are not to the problem

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possible way to the prevention of cancer

Trom the point of view of the prevention of cancer, the nature of the intimate cellular changes which transforms the normal cell into a malignant cell may be of much less importance than is generally believed. We are as yet ignorant of the nature of this change although in recent years, as a result of the experimental investigation of cancer, several possibilities have been suggested. However, even a knowledge of this change might not enable us to identify the external conditions which bring it about

The problem of the incidence and the prevention of cancer has now reached a point where it can be attacked by clinical investigations on man with a

reasonable expectation of success

SAMUEL KAHN, M D

#### DUCTLESS GLANDS

Mimpriss, T W, and Butler, R W A Case of Hyperparathyroidism with Certain Unusual Features Bril J Surg, 1934, XAI, 500

The authors report in considerable detail a case of hyperparathyroidism with an associated parathyroid tumor approximately 12 mm in length embedded in the anterior surface of the thymus. The patient was a boy seventeen years of age. The symptoms were pain in the knees causing difficulty in walking, pain in the long bones brought on by pressure, general retardation of growth, and defective mentality.

When the patient was first seen there was no evidence of kidney insufficiency, but this became marked later in the disease. The calcium content of the blood varied between 14 and 18 mgm, and the phosphorus content between 3 and 4 mgm per 100 cm.

X-ray examination of the bones revealed several areas of decreased density in the metaphyses similar to those of osteits fibrosa and a well-defined transverse band of increased density in the metaphyses immediately adjacent to the epiphyseal line. The authors suggest that this band of increased density, which has not been previously described as a finding in hyperparathyroidism, may be associated with the presence of active epiphyseal growth. Most of the cases of hyperparathyroidism on record occurred between the ages of thirty and fifty-five years, when the epiphyseal lines were closed.

Excision of the parathyroid tumor in the authors' case was followed by complete recovery Six months later, X-ray examination of the bones revealed no abnormalities, and the chemical character of the blood was normal

Lester R Dragstedt, M D

Hinton, J. W., Morton, P. C., and Weeks, C. Experimental and Clinical Studies of the Relationship of Thyroid Disease and Pancreatic Function 1nn Surg., 1934, vciv., 126

The authors report a study of the production of colloid goiter in dogs by ligation of the pancreatic ducts. This ligation is thought to influence protein digestion and hence the supply of tyrosine, it being assumed that thyroxin is formed from absorbed tyrosine. These cheoretical considerations are discussed and the technique of the ligation of the pancreatic ducts is described. Histological sections of dog thyroids before and three months after the ligation are shown. Some increase in colloid was evident. Thyroxin decreases colloid, and iodine increases it further. Determinations of tyrosine and tyramine in the blood of patients with low normal and high metabolic rates showed a parallel increase of values with an increase in the metabolic rate.

Paul Starr, M D

# BIBLIOGRAPHY of CURRENT LITERATURE

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Corrections of strabismus with the miocampter J L Pavía Rev oto-neuro oftalmol y de cirug neurol, 1933, viii, 390

The treatment of concomitant squint T A'B TRAVFRS

Australian & New Zealand J Surg, 1934, in, 258

Levatory paralysis of the eye, disappearance of papillary edema following deep roentgen therapy J L Pavia and R L REPETTO Rev oto neuro oftalmol y de cirug neurol, 1933, viu, 428

A simple suture needle for the O'Connor cinch shortening-muscle operation G ROBERTSON Am J Ophth,

1954, TVII, 150

A case of primary carcinoma of the lachrymal sac K T A HALBETSMA Rev oto neuro oftalmol y de cirug neurol , 1933, viii, 423

Tuberculosis of the conjunctiva L J ALGER J-

Lancet, 1934, ht, 83

Two cases of malignant melanomata (multiple) of the conjunctiva and eyelids A Rugg-Gunn Proc Roy Soc

Med, Lond, 1934, XXVII, 353
Sensibility of the corner A FRANCESCHETTI Rev oto

neuro oftalmol y de cirug neurol, 1933, viii, 387 Splitting of the right and left corner J C MARSHALL

Proc Roy Soc Med, Lond, 1934, XXVII, 350 Marginal degeneration of the corner J H DOGGART

Proc Roy Soc Med, Lond, 1934, XXII, 352

Rodent or Mooren's ulcer of the cornea, a report of three cases with healing S R Gifford Arch Ophth [490] 1933, x, 800

Blood culture studies in iritis E F TRAUT Am J

Ophth , 1934, vvn, 106

The pathology of tuberculosis of the anterior uvea [491]J IGERSHEIMER Arch Ophth, 1934, x1, 119 Traumatic monocular Argyll-Robertson pupil A Rugg-Gunn Proc Roy Soc Med , Lond , 1934, XXII, 352

The arrest of nutritional cataract in the albino rat by the use of Vitamin G (B 2) W C LANGSTON and P L Div

South M J, 1934, xxvn, 170

Complications in cataract extraction O B Nugent

Am J Ophth, 1934, xvii, 135

A combined needle and capsule forceps J L McCoor

Arch Ophth, 1934, x1, 299 Syphilis of the sclera W B Mittos Arch Ophth,

1934, XI, 297

The fundamental principles of cylinder retinoscopy

J I PASCAL Am J Ophth, 1934, vin, 120

Variations in pressure in the central artery of the retina M DUSSELDORP and L J RIVOLTA Rev oto neuro oftalmol y de cirug neurol, 1933, viii, 400

Thrombosis of the cilioretinal artery E WOLFF Proc

Roy Soc Med, Lond, 1934, XXVII, 354
Retinal detachment C B WALKER Am J Ophth

1934, XVII, I [491] The prevention of spontaneous retinal detachment K LINDNER Arch Ophth, 1934, x1, 148

[492] Retinal detachment and its treatment by surgical methods, a review of 425 cases C D Shapland Brit J Ophth , 1934, xviii, 1

Detachment of the retina, its present day operative treatment D K PISCHEL Am J Ophth, 1933, vvi, 1091

[493] The treatment of retinal detachment by Walker's method of electrocoagulation, a report of cases L C PETER Arch Ophth, 1934, x1, 262

The development of the tear-searing operation up to date P C Kronfeld J Missouri State M Ass, 1934,

Multipuncture diathermy operation J C MARSHALL Proc Roy Soc Med, Lond, 1934, xxvn, 349

Multipuncture diathermy operation (Safar's method) I C MARSHALL Proc Roy Soc Med, Lond, 1934, TTV11, 349

Interpretation of the stripe formed optic papilla G L

WALLS Arch Ophth, 1934, vi, 202 Angioid streaks of the retina A report concerning two cases associated with pseudoranthoma elasticum 1 B DYKMAN Arch Ophth, 1934, 71, 283

The treatment of retinitis pigmentosa by resection of the cervicothoracic sympathetic J A Caliro, J Malbrán, and J Balza Rev Asoc med argent, 1933, vlvii,

Nephritic retinitis, an interpretation Arch Ophth , 1934, 71, 300

Bilateral glioma treated by radium H BARKAN Arch Ophth , 1934, 71, 20

Three cases of congenital nuclear hypoplasia T LAW Proc Roy Soc Med, Lond, 1934, XXVII, 299

The clinical significance of retrobulbar and optic neuritis W I Lillie Am J Ophth, 1934, xvii, 110

Subretinal cysticercus J L Pavía and S A Durando Rev oto-neuro oftalmol y de cirug neurol, 1933, viii,

Cyst of the optic nerves and chiasm associated with an epithelioma of Rathke's pouch C C Coleman and E [494] HILL Arch Ophth, 1934, x1, 42

Progress in otolaryngology \ summary of the bibliographic material available in the field of otolaryngology L H CLERF Arch Otolaryngol, 1934, 117, 253

Conomics in otolaryngology B R Shurly Surg,

Gynec & Obst , 1934, lvm, 394

Recent advances in the physiology of hearing W J McNalla Arch Otolaryngol, 1934, arx, 201
Hearing ands and hearing tests C S Hallpike Proc

Roy Soc Med , Lond , 1934, YVII, 424

I simplified method of determining the percentage of actual hearing power in tuning fork tests. Sir J Dundas-GRANT Proc Roy Soc Med, Lond, 1934, XVII, 419

The use of the audiometer G P CROWDEN Proc Roy

Soc Med , Lond , 1934, xxv11, 428

Tympanic membranes which move with respiration T B JOBSON Proc Roy Soc Med, Lond, 1934, TVIII,

The cause of otosclerosis Ontogenesis of the aural capsule L K Guggenheim Ann Otol, Rhinol &

Laryngol, 1933, xln, 1171
Two cases of Paget's disease with a high degree of deafness greatly helped by "bone-conducting" electrical and W M Molliso Proc Roy Soc Med , Lond , 1934, xxv11, 444

Aural infections from the colon bacillus, report of a case C H Smith Arch Otolaryngol, 1934, xix, 249

The ear and syphilis C HENNEBERT Bruxelles-med, 1934, TIV, 443

A new dilator for the pharyngeal orifice of the custachian tube L K PITMAN Laryngoscope, 1934, vliv, 167

A report of two cases of neoplasm in the external auditory canal H B BLACKWELL operation, recovery Laryngoscope, 1034, thv, 105

Suppurative labyrinthitis, with case reports N BEXTLEY J Michigan State M Soc, 1934, vxxii, 69
Vertigo Proc Roy Soc Med, Lond, 1934, vxvii, 307

Functional ear examinations in patients with Memère's syndrome, a report of cases P NORTHINGTON Laryngoscope, 1934, thv, 85

Notes on diathermy in ear, nose, and throat disease F H B Norrie J Laryngol & Otol, 1934, xlix, 73

Poeumatiz t on of the temporal bone E C Teramen Arch. Otolaryng L 1934 32 172

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1933, p 1885

Thyrotoric comp J C M Fournier and A Loubejac Arch uruguayos de med, cirug y especial, 1033, m,

Management of the toxic-goiter patient viewed in a new light. W BIRTLETT J Missouri State M Ass., 1934,

TXX1, 67

Diffuse toxic goiter with observations on routine surgical treatment W W BABCOCK Surg Clin North 1m, 1934,

Experimental exophthalmos and hyperthyroidism in guinea pigs Clinical course and pathology H B TRIED-GOOD Bull Johns Hopkins Hosp, Balt, 1934, hv, 48

Blood sugar and glycosuria in exophthalmic goiter T ANDERSEN Acta med Scand, 1933, Supp liv

Persistent and recurrent postoperative evophthalmos M NORDLAND and L M LARSON Am J Surg, 1934,

Pre-operative and postoperative treatment of exophthalmic goiter and of hyperfunctioning adenomatous goster H F DUNLAP J Indiana State M Ass, 1934, 77711, 64

Cancer of the thyroid gland BERARD and ARMANET

Lyon chir, 1934, 121, 121

Summary of the end-results of treatment of malignancy of the thyroid gland and the colon, including the rectum and anus J DEJ PEUBERTON and C F DINON Surg, Gynec & Obst , 1934, lvm, 462

Permanent cure of cancer of the thyroid M B TINLER

Surg, Gynec & Obst, 1934, lvm, 468

Thyroid surgery in southern Michigan as affected by the generalized use of iodized salt R D McClure I Michigan State M Soc, 1934, xxiii, 58

Total and subtotal thyroidectomies, indications for operation and technique developed from a series of 1,900 cases J C Moore Am J Surg, 1934, XXIII, 235

The diagnosis and treatment of pulmonary and laryngeal

tuberculosis H Ulrici 1933 Berlin, Springer Tuberculosis of the larynx D I Torix Arch Otolaryngol , 1934, XIX, 195

Early results of treatment of laryngeal tuberculosis with thyroid extracts D BETTINI Policlin, Rome, 1934, vli, sez prat 135

The roentgen diagnosis and treatment of laryngeal neoplasms I S Hirsch and S Brum Laryngoscope, 1934, thv, 144

Carcinoma of the larynx H W MEYER Ann Surg,

1934, XCLX, 367 Cancer of the larvny, its curability by laryngofissure C JACKSON Surg, Gynec & Obst, 1934, lvm, 431

#### SURGERY OF THE NERVOUS SYSTEM

#### Brain and Its Coverings, Cranial Nerves

The morphogenesis and evolution of the cerebellum O LARSELL Arch Neurol & Psychiat, 1934, XXI, 373 Arteriography of the cerebral vessels as a diagnostic aid

in skull injuries W LOEHR and W JACOBI Arch f orthop Chir, 1933, XXXIII, 516

The diagnosis, treatment, and immediate prognosis of cerebral trauma. An introductory study of 1,494 cases D MUNRO New England J Med, 1934, ccx, 287 Cramal traumatism A PAULIAN and S POPESCU Rev

de chir, Bucharest, 1933, xxxvi, 506

Traumatic longitudinal sinus lesions, report of two cases C BAGLEY, JR Surg, Gynec & Obst, 1934, lvin, 498

The management of acute head injuries A A Wilson

West Virginia M J, 1934, XXX, 71

The care of injuries of the brain in war and the value of early costochondral grafts in skull defects A M HANSON Mil Surgeon, 1934, Ixxiv, 61

Apoplexy and its pathogenesis Schwartz Ann d'anat,

path , 1933, v, 995

Chincal types of spasm of the arteries and the fissure of Sylvius H Roger and P SARRACON Presse med, Par, 1934, Xlu, 130

Sliding herma V Zabusov Sovet chir, 1933, 11, 77 The syndrome of the midcerebellar line J M OBARRIO, E DOWLING, and E A PEDACE Semana med, 1934,

The significance of subarachnoidal pressure A ZLATO-

Negative epidural pressure Bonnior Bull et mém

Soc nat de chir, 1934, lx, 124

The etiology of spasms of the sylvian artery H ROGER and P SARRADON Presse med, Par, 1934, Aln, 225 Statistics on fifty-six cases of cerebral hamorrhage Guillain and Seze Ann d'anat path, 1933, x, 1054

Experimental study of cerebral hæmorrhage Deelman Ann d'anat path, 1933, 7, 977

Histobiochemical study of cerebral hemorrhage BALOGH Ann d'anat path, 1933, 7, 1051 The puthogenesis and physical pathology of cerebral

LHERMITTE Ann d'anat path, 1933, v, hæmorrhage

Cerebral hæmorrhage and experimental arterial hypertension Weptheimer, Dechaume, and Fontaine Ann d'anat path, 1933, x, 1034

Late homonymous paresis following cerebral hemorrhige Hand Ann d'anat path, 1933, x, 1056
Two cases of ventricular hæmorrhage Brunschweiler

Ann d'anat path, 1933, x, 1037

Venesection in the treatment of cerebral hamorrhage

BERNARD Ann d'anat path, 1933, v, 1049
Pathologico-anatomical study of ten cases of hæmorrhagic encephalitic psychosis Marchand and Courtois Ann d'anat path , 1933, x, 1040

Polycythæmia and lesions of the hypophysis and diencephalon A Baserga Policlin, Rome, 1934, 7li, sez

med 17

Cerebral fat embolism. An experimental study with special reference to the reaction of the glia L S MERI-WETHER and D C WILSON Arch Neurol & Psychiat, 1934, XXXI, 338

Neurogenic tumors of the central nervous system A GEIMANOVIC and E CHAET Vrač Delo, 1932, XI, 155

Direct radiographic demonstration of an uncalcified pituitary tumor K S Cross Australian & New Zealand J Surg , 1934, 111, 285

Cramal osteomata and hyperostoses produced by meningeal fibroblastomata, a clinical pathological study ECHLIN Arch Surg, 1934, xxviii, 357

Benign encapsulated tumors in the lateral ventricles of the brain, diagnosis and treatment W E Dixor Ann Surg , 1933, ceviii, 841 [499]

The histological findings of the hypophysis in cancer G A WYETH Endocrinology, 1934, XVIII, 59

A plastic, hæmocystic mass for intracranial operations B Fuchs Arch f Llin Chir, 1933, clxxv, 335

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Med Ibers 934 xv1 9

The prognozis in mammary carcinoma | E | K | Dawson and M C Top Edinburgh M J, 1934, 14, 61

Cancer of the breast, a curable disease J T Moorr

Surg . Gynec & Obst , 1034, lvm, 443

Radiation in primary operable breast cancer D Quick J Am M Ass, 1933, ci, 2091

The X-ray treatment of carcinoma of the breast L J

Carter. Canadian M Ass J, 1034, xxx, 173 Postoperative radiotherapy for cancer of the breast P LEHMAN Comptes rendus de la Soc franç de gynec, 1933, 111, 220

Results of radical operation for carcinoma of the breast R. R. Smith Surg, Gynec & Obst., 1934, him, 446

Carcinoma of the breast, surgical treatment and results five, ten, and fifteen years after radical amout ition S W HARRINGTON and E S June Surg, Gynec & Obst, 1034,

Five year cures of cancer of the breast at the Massachusetts General Hospital R B Greenough Surg, Gynec

& Obst , 1934, lvm, 437

Five-year cures in a series of fifty-four breast cancers J M Mason Surg, Gynec & Obst, 1934, lvm, 442 Radical excision of the breast J TRASER Surg, Gynec & Obst., 1934, lvm, 171

#### Trachea, Lungs, and Pleura

Foreign body in the upper air passages, a case report A. Sachapov Vrač Delo, 1932, 70, 603

Foreign bodies in the upper air passages and osophagus in children M Lickus Vestnik Chir, 1932, lxxxii/lxxxiv,

Foreign bodies in the lungs of children P KLEBANOVA

Vrač Delo, 1932, xx, 157

A small pea in a bronchus diagnosed with lipiodol, morphine, expulsion C Mantoun and R Castellau Presse med , Par , 1934, tlu, 165

Dry air for the removal of fluid from the bronchioles and

alveoli G DEM RUDOLF Lancet, 1934, ccxxvi, 284 Injuries to the pulmonary arteries B HERZBERG

Vestruk Chir 1932, lxxxii/lxxxiv, 179

The treatment of pulmonary hæmorrhage due to gunshot wounds of the thorax with camphorated oil Y T HUANG Arch f Llin Chir, 1033, clxxvi, 187

A case of pulmonary hernia M CHELIMSKIJ Vrač

Delo, 1932, xv, 606
Medical treatment of bronchial dilatation Girbar

Presse med , Par , 1934, xln, 111

A study of chronic idiopathic atelectasis C Suque Arch de med, cirug y especial, 1034, vv, 88

Bronchoscopy in the treatment of chronic bronchitis and asthma, and of pleurisy opening into a bronchus M G Loza Rev med d Rosario, 1933, xxiii, 1094

Pneumonocomosis, with special reference to some of its complications J L Dubrow Radiology, 1934, xxii,

Oldiomycosis of the lungs D T SMITH J Thoracic

Surg , 1934, 111, 241

Hydatid cyst occupying two-thirds of the right lung, and considerations based on non suppurative operated cysts of the lung, thirty-one cases N ALIVISATOS Bull et mem Soc nat. de chir, 1934, lx, 75

Parory smal arterial hypertension with critical ordema of the lung, left suprarenalectomy MELLIÈRE Buil et

mem Soc nat de chir, 1933, lix, 1432
Tuberculous pulmonary cavities L Maxep New York

State J M, 1934, TXXII, No 4

Indications technique, and results of surgical collapse therapy for pulmonary tuberculosis SCHARDTLEIN Zentralbl f Chir, 1933, p 2393

Some practical points in the treatment of pulmonary tuberculosis by artificial pneumothorax \ L Punch Brit M J, 1934, 1, 179

A simple method of controlling a valvular pneumo-

thorax E R Boland Lancet, 1934, ccxxvi, 231

Pneumothorax, a radiographic study W E ALLEN, JP I Nat M 1ss , 1034, txi, 6

The effect of fluid complicating artificial pneumothorax

R R TRAIL Brit M J, 1934, 1, 183
Phrenicotomy in the treatment of pulmonary tuberculosis R B BILLEY West Virginia M J, 1934, TXT, 56

The exploration of the lesion and pneumocavernolysis in the operative treatment of pulmonary tuberculosis H

NEUHOF J Thoracic Surg , 1934, in, 270

Extra intrapleural supraclavicular apicolysis M Joan-NIDES and P SHAPIRO J Thoracic Surg , 10,4, iii 315 Paravertebral extrapleural thoracoplasts J M NELSON

Northwest Med , 1034, xxxiii, 58

I new principle of pulmonary collapse with production of extreme atrophy and cirrhosis of the lung. An experimental study. J. J. Wolfe, T. T. Wang, and C. M. Van. ALLEN J Thorner Surg, 1934, 111, 300

Intrapleural pneumolysis J A Moore J Thoracic [503] Surg , 1034, 111, 276

Abscess of the lung with pleural effusion E Sergent and M ISELIA J Thoracic Surg , 1933, iii, 109 [503]

Serum therapy for putrid pulmonary abscesses Spužic Med Pregl, 1933, viii, 114

The treatment of pulmonary abscess by peripheral lung fixation and regional thoracoplasty R H OVERHOLT Thoracic Surg , 1933, iii, 134 [504] The pathogenesis of bronchiectasis J A. Miller J

Thoracic Surg 1934, 111, 246

Operations for bronchiectasis Jeglin Zentralbl f Chir, 1933, p 2392

Bronchial and pulmonary stones V MASALOV Vrač

Delo, 1932, 71, 190 Inflammatory tumors of the bronchi, experimental and pathological consideration A Perovi Arch Otolaryngol [504] 1034, XIX, I A case of sarcoma of the lung SAENZ DE SANTA MARIA

Med Ibera, 1934, vviu, 6

Purulent pleurisy, double recurrent, cure C P Mov-

TAGNA and G J DI IORIO Semana med , 1934, xli, 247
The pathogenesis of acute empyema Spasokukockij and VINOCRAD FINEL Nov chir Arch, 1933, xxviii, 369

Characteristic clinical differences in tuberculous pleurist depending upon the stage of the infection L CAPALDO Policlin, Rome, 1934, xli, sez prat 91

Subpleural emphysema in a case of carcinoma of the lung O IVANISSEVICE and R. PARDAL Semana med, 1934, xli,

The treatment of empvema W SAZONTOV Vestnik

Chir, 1932, hxxxii/lxxxii, 76 The treatment of empyema H S STACY Med I Australia, 1934, 1, 178

The treatment of empyema with gentian violet S

KASKAROV Vestnik Chir, 1932, lxxxii/lxxxiv, 82 The surgical treatment of empyema R B WADE Med

J Australia, 1934, 1, 175

The flap operation for the treatment of acute empyema thoracis A Nicoll Surg, Gynec & Obst., 1934, lviii, 206

#### Heart and Pericardium

Stab wounds of the heart E G RAMSDELL Ann Surg , 1934, xcix, 141 [505] Metastatic tumors of the heart E M BUPKE Am I Cancer, 1934 xx, 33 [505]

Late 7 suits of c rd ac suture V L TOKIN V tank Chur 1912 laren/lax iv 96

The su gery I corona y d as A A ZIEROLD I Th pr blem of dr 1 e per cardius M Schus Wien Lan t 1934 h 60

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## Miscellaneous

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933 11 114

Experimental researches on the action of hypertonic solutions in perforation peritonitis. L. Salici Clin chir [508]

Unile cysts of the mesentery A N Collins and G L

Bradez Arch Surg, 1934, xxviii, 335

Torsion of the omentum V KAZMIN Srpski Arch Lelarst , 1933, xxxv, 473

#### Gastro-Intestinal Tract

I study of permisceritis of the digestive tract. Gómez-Arch de med, cirug y especial, 1934, XV, 29 The role of the vegetative nervous system in gastrointestinal disease S Weiss and V L Collins Internat Chinics, 1934, 1, 197

The extramural sympathetic nerves of the stomach 1 I LEPST Cas KI česk, 1033, pp 922, 954, 984, 1011,

loreign bodies in the stomach L R. HILDRETH and R B CASES J Am M Ass, 1934, cn, 604

Recurrent trichobezoar D L BENNETT New England

Med , 1934, ccx, 307

Pylorospasm or congenital hypertrophic stenosis of the Polorus J C Brim J Med Ass Georgia, 1934, xxiii, 51 Pylone stenosis, a plea for early diagnosis G GAITHER kentucky M J, 1934, xxx11, 93

leute pyloric closure due to incarcerated polyps G

hovernotic Vrac Delo, 1032, xv, 604

Four years' experience with examination of material obtained by gastric lavage. I Demonstration of tubercle bicilli and its significance in prognosis, therapy, and estimation of danger of infection. II Demonstration of tubercle braili V Poulsin A O Andersin, and V 115TIP Am J Dis Child, 1934, Avu, 307, 322

Irniable stomach, gastritis, and peptic ulcer Wistings. Atschr f klin Med, 1033, excu, 653 [509] I study of twenty cases of gastric and duodenal ulcer in the negro R L Jickson and B Harris J Nat M

1c, 1934, xxvi, x

The mechanism of pain in gastric and duodenal ulcers W I PALMER and T F HEINZ Arch Int Med, 1934, lm 260

The rôle of infection in gastric and duodenal ulcer I W St. dees, H B Holsinger, and M A Cooper

Am J M Sc., 1934, clrexvii, 246

Imphylactically reaction produced by the strepto-coccisof gastriculeer L. W. Saundlers, H. B. Holsinger, and M A Comer Am J M Sc., 1934, classen, 249

Inother 53 mptom of perforated ulcer of the stomach

V Dru moisin Vrac Delo, 1953, xvi, 17

Perforation of peptic ulcer following X-ray examination with a barium meal H A Staces Radiology, 1934, X711, 1S1

Barum meal examination of the stomach in the presence of unrecognised perforated peptic ulcer. H. A. Singer h) J Roentginol, 1944, xxxi, 191

I specioces with a new mode of treating peptic ulcer

1 (1844 Am J Surg., 1944 xxiii 210

Glucose repulation and gastroduodenal ulcer. I. Mor-

tive Riforrin med , 1034, h o

Il expendental study of the effect of histamine on the I has or g structelects - artificial easting ulcer C A Theo and I I Hours Sing, Ginee & Obst., 1034 Whit I do

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The diagnosis of cancer of the stomach | T N G STAPP Canadian M Ass J, 1934, XXX, 171

The value of the meniscus sign in the roentgenological diagnosis of ulcerating gastric carcinoma B R KIFFLIN Radiology, 1934, xxu, 131

Personal experiences in gastric surgery I Con's Texas State J M , 1934, vviv, 622

A new gastric clamp N MIRULI Viac Delo, 1032,

The prevention of hamorrhage following operations
The prevention of hamorrhage following operations
Zentralbl f Chir,

upon the stomach H FLORRELFN Zentralbl f Chir, 1033, p 2013 The importance of the size of stomach and stoma in

gastro enterostomies E I JENKINSON J Am M Ass., 1034, CH, 354

The technique of suture of the stomach and duodenum following gastric resection W. I. MUSCHRATIN Arch f. klin Chir, 1933, clxxv 709

An X ray study of the postoperative stomach J R CARTY, S WEINTRALB, and R K FFITEP Radiology,

1934, XXII, 191

Experimental investigations on the effect of gretric resection on the bacteriology and chemistry of the small intestine, and its clinical significance E Heffel and I SAPTORIUS Arch f Llin Chir, 1933, claxvi, 197 Some remarks on the postoperative course following gastrectomy J A AIVSPET Cirug y cirujanos, 1933,

Acute intestinal obstruction Button New Zealand

M. J., 1933, xxxii, 320

Study of certain electrolytes in the blood in intestinal obstruction F CATALIOTTI Policlin, Rome, 1934, th, sez chir 17

A possible role of the toxic factor in intestinal obstruction W DEW INDRES and G M GUEST Inn Surg , 1954, xcix, 374

The effect of morphine on the obstructed intestine A Ochsnep, I M Gage, and R A Cutting Arch Surg., 1034, 171111, 405

Intestinal obstruction relieved by hydraulic aspiration G H PPATT Surg Chn North Am, 1931, xiv, 163

Operative mortality in intestinal obstruction F Christophi P and W K Junius Ann Surg, 1034 TCIT, 332

Reduction of a volvulus by a radiologist K S Cross Australian & New Zealand J. Surg., 1954 in, 254

Diverticulties R P HAWKINS Ji Virginia M Month. 1934, lx, 674

Intestinovesical fistula M White Glasgor M 1. 1034, CXTI, 59

Inte intestinal perforations tollowing contusion Right Ann ital dichir, 1913, vii 1.74 [511] Simple ulcer of the intestine A Zarras in chir, 1033, 17, 1126

Lactors influencing mortality in operative carcinomata of the large into time A S Granam Vir. min M Month. 1934, lx 652

An instrument for intertunal agreetories of H. D. I. i.

NISS Art J Surg., 10 4, XX ii 370

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R ght a ded duodenum inv raum with an account fith dillipm nt. I th duod num. M. Weineren and A. L. McCrecon. Lancet 19 4 ccravi 280.

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D ri culos and d vert rul us f the colon \ C. Ifevr California & West, Med 1934 rd, 98 Publicash mus descrip mand the colon R. C. Roya

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M Ass 914 C: 67
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An In u a ndh tulæ Suresi Chande D si tera. Cal tta M I oza xxv u z

#### Liver, Gall Bladder, Pancreas, and Spleen

The function of the biliary tree J E Sutton, JR Ann Surg 1934, 7C17, 385

A case of spontaneous external biliary fistula F GILL

Insh J M Sc., 1934, No 98, 87

Extraperitoneal anastomosis for biliary fistula W W

BABCOCK Surg Clin North Am, 1934, viv, 55

Calculous obstruction of the biliary tract along its entire length, choledochotomy and relief of the obstruction in a papilla by the method of Pribram, recovery A BASSET Bull et mem Soc nat de chir, 1934, lx, 33
Biliary surgery A H Braden and J P Barnes

Texas State J M, 1934, VAIV, 631

Contributions on current problems in surgery of the bile passages based on 165 personal operations A Brzozov-Skij Nov chir Arch, 1933, xxviii, 164 [515] Liver insufficiency W M Weeden Ann Surg, 1934,

xcix, 386

Infantilism and cirrhosis of the liver M V RAD-

HALRISHVA RAO Indian M Gaz, 1934, lxix, 64

Spontaneous hypoglycæmia associated with hepatitis H Moore, W R O'FARRELL, and M I HEADON Irish J M Sc, 1934, No 98, 72

Diagnosis of the hepatic abscess, case report SABATINI Polichin, Rome, 1934, Ali, sez prat 85

Echinococcus cyst of the liver simulating ovarian cyst.

A MERLINO Clin ostet., 1934, xxxvi, 22

Personal operative statistics on 135 cases of hydatid cyst of the liver G Oursé Bull et mem Soc nat de chir, 1934, lx, 88

A case of purulent gas containing hydatid cyst of the liver P GOINARD Bull et mém Soc nat de chir, 1934,

Calcified cyst of the liver J M HANFORD Ann Surg,

1934, vcix, 359

Some problems and results in cholecy stography C B

Rose Radiology, 1934, xxii, 197

Oral cholecystography M FELDMAN Am J Roentgenol, 1934, XXXI, 227

Lethicin egg yolk emulsion—a substitute for the fat meal in gall bladder study D L PALMEP Northwest Med , 1934, XXII, 51

The mucosa of the gall bladder J G SCHMIDT Ann

Surg, 1934, xcix, 391

Reaction of the gall bladder to cystic stimuli P

Buisson Radiol med, 1934, XVI, 44

The diagnosis and differential diagnosis of diseases of the gall bladder W J RYAN Surg Clin North Am, 1934, viv, 185

Torsion of the gall bladder I GILL Irish J M Sc,

1934, No 98, 86

Chronic cholecystitis and wandering kidney C F NASSAU Surg Clin North Am , 1934, xiv, 19

Genital organs and cholecystitis G Lino Ann ital di

chir, 1933, XII, 1229

Radiographic diagnosis of non calculous cholecystitis, experimental study, the sign of lamas D Fernández and M M MITRANI Med rev Mex, 1934, xiv

Cholecystogram in the upright position, a new roentgenological symptom of gall stones A roentgenologically diagnosed abscess with perforation of the colon due to a forgotten gauze sponge A ALERLUND Svenska Lakar-

tidaingen, 1933, p 841 The value of the duodenal sound in the diagnosis of gall

stones F Laszlo Orvosi hetil, 1933, p 849
The formation of gall stones J E Sweet Ann Surg, 1934, YCIX, 392

The formation of gall stones D J HARRIES Brit M J, 1934, 1, 193

The sympathetic nervous system in the pathogenesis of gall stones B GAISINSLIJ Vrač Delo, 1932, vv, 435

Infection in the pathogenesis of biliary lithiasis J M

SOLDEVILLA Clin y lab, 1934, YIX, 28

Discussion on gall-stone disease Lijec Vjesnik, 1933,

Cholelithiasis with congenital defect of the gall bladder E Michaelsson Svenska Lakartidningen, 1933, p 843

Adenoma of the gall bladder W L A WELLBROCK Am

Surg , 1934, 1XIII, 358

Surgical therapy in gall bladder disease R R GRAHAM

Canadian M Ass J, 1934, xxx, 119

Anatomical changes in the gall bladder and changes in the bacterial flora of the gall bladder in cholecystogastroenterostomy G Scollo Policlin, Rome, 1934, xli, sez chir 40

Subserous cholecystectomy and the treatment or cystic duct M KEMAL Deutsche med Wchnschr, 1933, 11,

Recurrences following operations on the gall bladder, their pathogenesis and treatment. M KUENSZTLER Wien Llin Wchnschr, 1933, 11, 1122

Congenital dilatation of the ductus choledochus A TAILHEFER Bull et mém Soc nat. de chir, 1934, xl, 8 Idiopathic choledochus cysts N BACKER-GRONDAHL

Med Rev , 1933, l, 337

Choledocholithotomy with intraduodenal drainage and closure of the common duct, MacCormick's technique D MILLER Australian & New Zealand J Surg, 1934, 111,

Drainage of the common duct I S RAVDIN Surg Clin North Am, 1934, xiv, 127

Traumatism to the pancreas A Guiliano Semana

méd , 1934, xlı, 66 The clinical aspects of the histology and pathology of the

pancreas G K WHARTON Canadian M Ass J, 1934, xxx, 148 Hypoglycæmia and hyperinsulinism M K. Tedstrom

Ann Int Med , 1934, vii, 1013 The diagnosis and treatment of pancreatitis M M

ZINNINGER J Med, Cincinnati, 1934, viv, 642
Acute pancreatitis C F Horine Ann Surg, 1934,

XCIX, 301

Hyperglycæmia and acute pancreatitis, its diagnostic and prognostic value, and its treatment P Brocq and J VARANGOT Bull et mem Soc nat de chir, 1934, lx, 25

Indications for operation in acute pancreatitis HORTOLOMEI, L HERSCOVICI, and T BURGHELE Rev de

chir, Bucharest 1933, xxxvi, 455

Tumor of an accessory pancreas in the wall of the stomach A Eisenberg Vrač Delo, 1933, vvi, 199

Hyperinsulinemia secondary to an adenoma of the pancreas A report of a case with operative cure L I Ross and J M Tomasch Arch Surg, 1934, txvin,

Accessory spleen associated with chronic intestinal obstruction P Voss Australian & New Zealand I Surg. 1934, m, 287

Myeloid changes in the spleen due to cestode infections and to emulsions prepared from tapeworms R Hoeppli and L C FENG Chinese M J, 1933, Will, 1146

Rupture of the spleen with splencotomy L P Kunn and J D WILLEMS Internat J Med & Surg, 1934,

A study of the blood platelets after removal of a ruptured spleen B R SHORE and K V KREIDEL Ann Surg, 1934, vcix, 307

#### Miscellaneous

Foreign bodies a the abdominal cavity S I ets al. Irac Dels toss mi st At our nal in unes is O's Surger & Sam Come

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Twe-year cures of carcinoma of the cervix uteri. H. S. Crossen and Q U Newlik Surg, Gynec & Obst,

1033 hun. 450

Can we increase the percentage of cures in cancer of the cervir uten G Gellinory Surg , Gyrice & Obst , 1034,

Invevear end results of the treatment of circinomi of the cervix fundus, and ovary C C Not ris Surg., Genec & Oost., 1934, him, 458

Recurrences after five years cure in carcinoma of the cervix radiologically treated K Liverizes Acta radiol,

1933, 314, 575

List formation in a large myoma undergoing sarcomatous change L C Schlerry Surg Chin North Am. 1934, 711, 143

Fundectomy in gynecology ACUIRPE Cirug V

cirujanos, 1033, p 63

#### Adnexal and Periuterine Conditions

The frequency of conception following conservative operation and conservative treatment of adnexal inflam mation K Hierschep Zentrilbl f Gynack, 1033 p 2061

Fibroma of the round ligament of the uterus P F CASA

and P E Borfas Semana med, 1934, th, 54
Primary fibromata of the broad ligament M Lourine Presse med , Par , 1934, xln 49

Præternatural patulousness of the fallopian tubes | I R GOOD LL J Obst & Gynre Brit Emp 1934, vli, 78

I study of the presence of a sphincteral apparatus in the fallopian tube J UENO Jap J Obst & Gynec, 1933, XV1, 562

Torsion of the normal fallopian tube A McLachipa

Brit M J, 1934, 1, 190

Rupture of the pyosalpinx P HLFT Bull et mem

Soc nat de chir, 1034, lx, 60

Operative statistics on rupture of pyosalping Micho Bull et mem Soc nit de chir, 1034, lx, 58 Generalized peritonitis due to rupture of a prosalping,

statistical study P Duval Bull et mem Soc nat de chir, 1934, lx, 32

Epithelioma and sarcoma of the fallopian tube Levert

Ann d'anat. path , 1933, x, 1220
The technique of tubal sterilization D Kulenkampff

Deutsche med Wchnschr, 1033, 11, 1204

Conservative operations on the fallopian tubes | Full term normal pregnancies after bilateral tubal implantation and after bilateral tubal resection A MANDELSTIMM

Zentralbl f Gynack, 1933, p 2132 [518]
The innervation of the ovary from the first stages of its development. E G Verner Rev mid de Barcelona. 1933, ₹, 492 [519]

Lyperimental studies of the effect of ovarian hormones on pigment formation B BLOCH and A SCHRAFL Arch f Dermat., 1932, cl-1, 268

The histology of the ovary in menstrual disturbances H. HAUPTMANN Monatsschr f Geburtsh u Gynael, 1933, xcv, 13

Torsion of the right ovary and appendicitis C STOIAN and P Cosresco Bull Soc d'obst et de gynec de Par, 1933, XXII, 805

Cold abscess in a tuberculous ovary G G VELINOFF

Presse med , Par , 1934, thi, 56

Ascites or ovarian cyst? O Brakeving Zentralbl f

Gynaek, 1933, p 2376

Polycystic ovaries in the newborn and in early infancy, and their relationship to the structure of the endometrium M Spinack Am J Obst & Gynec, 1934 xxvii, 157

A case of seminoma of the ovary C DINIEL, A Sorwick, and G Procorie Genecol, 1933, vin, 255

An ovarian dermoid with twisted pedicle I C Gopa-

LAN Indian M Gaz , 1034, lux, 83

Report of a case of bilateral ovarian tumors of the Brenner type J M MAURY and H C SCHMEISSER Am J Obst & Gynec, 1934, 73711, 290

Mulgnant neoplasms of the ovary A W JACOBS Am

J Obst & Gynce, 1934, XVII, 257 Krulenberg tumor R W BINKLEY West J Surg, Obst & Gynec, 1934, vln, 110

#### Lxternal Genitalia

I new suture in perincoplasty G A Cooks Im J

Surg., 1044, XVIII, 352 \ulvopermeorrhaphy 1 I ROBINSON J Obst &

Gynte Brit Lmp, 1934, vli, 1 A contribution to the study of cysts of the duct of

Bartholm's gland A TADDEI Chn chir, 1933, ix, [519] Calculed tumor of Bartholin's gland MAUCLAIRE Bull

ct mem Soc nit de chir, 1933 lix, 1543, 1934, lx, 55 Colposcopy of Hinselman O JUERGENS Rev méd-

chirurg de pat femenia, 1033, ii, 801
Trichomonas viginitis L W Aver and J M Neil

California & West Med , 1934, al, 117

The diagnosis of trichomonas vaginalis vaginitis, preliminary report on a new method R E Ewing and M II Moine Surg, Gynec & Obst, 1034, lviu, 192

Trichomonas vaginalis vaginitis, treatment with sodium perborate W SMITH Wisconsin M J. 1934, XXXIII.

Incarcerated pessary in primary carcinoma of the vagina G V Secre Clin ostet, 1934, xxxvi, 13

#### Miscellaneous

The lutein co-efficient of the anterior lobe of the hipophysis A Lipschterr Endokrinol, 1933, viii, 90

cal hypophyseal ovarian relationship as a factor in the control of lactation W. O. NELSON. Endocrinology, 1934,

Study on the tissue respiration and glycolysis in ob-I Toloshima Jap J Obst. & steines and gynecology

Gynec, 1933, XVI, 520

I vperimental study on the effects of Vitamin B on the female genital organs J UENO Jap J Obst & Gynec. 1033 371, 551

Pelvic roentgenography, its value as an aid in gynecological diagnosis J HUBERMAN and D R MISHELL 1m J Surg , 1954, VVIII, 243

I case of double vagina, cervix, and uterus L H BISKIND Am J Obst & Gynec, 1934, XXVII, 293

Massive prolapse of the uterus and rectum in a woman of eighty years J DE FILIPPI Semana med, 1934, th

The direct signs of ovulation J Segue and H. Simon-

NET Gynce et obst, 1933, xxviii, 657

Ovulation and menstruation R ARAYA Semana med 1933, xl, 1549 1714 [520]

Ovulation and menstruation W Shaw But M J, [520] 1934, 1, 7 The chemical nature of emmenin J B Collin, J S L

Brown, and D L Thouson Endocrinology, 1934,

Menstruation after abdominal operations, its early ap pearance as a favorable prognostic sign DEW STETTEN Am J Surg, 1934, xxiii, 361

menstrual

Artifici I products a of men tru tion with arran h r m es in cases of prim ry and sec dary amen irbora. A LOESER J Obst & Gynze Brit. Emp 934 xl 86
P of l menstruation T W Adams W st I S c

Obst & Gynec 934 xi 188 Clc m in the tre tm t of dysm northor R F BOYNTON & d E C HARTLEY Am J Obst & Gyn 934 xxvii 53 M nstrual fe e in t berculo sw m n J Lectoux

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Ves cal symptoms in the f male E G WATERS Am I

Obst. & Gynec 934 xx 1 28 Durnal inco tin nee in wome | T WITHE 5 OON

Arch Surg 1934 xxv1 548
U trl comp on gynecological diseases O Francke and G Garoski Ire e med Pr 1014 lu

gynec 1 gac 1 Phys cochemical change of the bl od dis ses Il Experim tal at dy th changes f the blood in gynecol gical diseases. M IKEDA Tap I Obst

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#### OBSTETRICS

#### Pregnancy and Its Complications

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933 P 197 How ea ly 1 th nne t st p 1th in pregn ncy? H Nielsen Ug k f Læg r 933 p 864

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Dystoc due t c kined d rmod cyst f the rectov g: 1 septum A F Gibert and A Eiras B 1 Soc de

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M J 1934 x 78
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#### GENITO-URINARY SURGERY

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Addison's disease associated with syphilis and fracture of the first lumbar vertebra J C HEATHER Proc Roy Soc Med, Lond, 1934, XXII, 388 Addison's disease S L SIMPSON Proc Roy Soc Med,

Lond, 1934, 7xv11, 389

Addison's disease, abdominal operation S L SIMPSON

Proc Roy Soc Med, Lond, 1034, xxvii, 390
Addison's discase and tetany S L Simpson and C
Gopdon Wilson Proc Roy Soc Med, Lond, 1934,

Addison's disease D C HARE and S L SIMPSON

Proc Roy Soc Med, Lond, 1934, xxvii, 393

The history of a case of carcinoma of the adrenal cortex with Cushing's syndrome T G LESCHER and A H T ROBB SMITH Proc Roy Soc Med, Lond, 1934, XXVII,

Denervation of the adrenal glands G CRILF Wisconsin

M J, 1934 xxxiii, 87

New pyelographic technique M B WESSON Am J

Surg , 1034, exiii, 284

Pyelography by the descending route Von Lichten-

BFPC Brit J Urol , 1933, v, 339

A contribution on the hydromechanical pyelorenal phenomena in ascending pyelography E CASTRONOLOGICAL and B Brown Ann ital dichir, 1933, vii, 965

In overlood ed source of error in the interpretation of pvelograms S RIBBING Acta radiol, 1933, viv, 545 [529] Maclean's urea concentration test in cases of surgical lidney sufferings E Husfeldt and V Aalkijver Acta

chirurg Scand, 1934, Ixxiii, 399 (529) Some renal abnormalities O L Apprson Proc Roy

Soc Med , I and , 1934, xxvn, 407

Reduplication of the kidney and ureter, urinary incontinence because of ectopic orifice of the supernumerary ureters I Ars Vestnik Chir, 1933, lxxxy/lxxxvi, 69

A case of unilateral fused kidney G V DF AZFVEDO

Rev urol de 5 Paulo, 1933, 1, 147

Pyelo ureteral dyskinesias and malformations of the vertebral column G Lup accioi v Radiol med , 1934, [529]

Irrumatic rupture of the kidney W S Puch Internat

Mcd & Surg , 1934, xlvn, 27 The use of ribbon gut in the repair of kidney wounds O W I OWSIF1 and C C BISHOP Ann Surg, 1934, zcix, 388

Post traumatic functional renal homorrhage F R W TRIVE and R JAFFE Deutsche Etschr f Chir, 1033 cexli, 74

Renal aneurism J E Brinkin J Iona State M

Soc, 1934, Triv, 84

The pathogenesis of hydronephrosis 1 Hrana Surg,

Genee & Obst., 1034, Iviii, 356
Intermittent hydronephrosis and intermittent con gestion of the kidnes. D KULFNKIMPER Med Welt

Horseshoe kidnes with hydronephrosis on the left side J M Costy and P N or Suyy Rev urol de S Paulo

1933, 1, 139

Pyclonephritis with renal failure, ultimate recovery 7 S Roberts Proc Roy Soc Med , I and 1034, xxvii, 413 Intrapentoneal rupture of a calculous pronephrisis

1 G I June Brit J Urol, 10.3, 1, 1, 20 breillus coli prelitis 1 Torroi /tech- f U-ol, 1033

XXV11, 195

Received prophic is some satisfies of unitary billistrates and calculous formations in Laypt and intra-ences prelocaphi M. I. Itali. In J. Koentrenol. 1054 vvii 108 Vesicouriteral rell v. in read tuberculos s. D. I.

Imperates and destrula, 10 mai 164 [530]

Two cases of chronic pyuria treated with autogenous vaccines B Schlesinger Proc Roy Soc Med Lond, 1934, XXVII, 411

Atypical nephrolithiasis G Teplickij Vrač Delo,

1933, XVI, 19
The necessity of nephropery following operation for renal and pelvic calculus M N Hortologici Bull et mém Soc nat de chir, 1034, lx, 44

Solitary cyst of the Lidney H RAPOPORT Vrac Delo,

1932, XV, 101

Solitary cysts of the kidney B E GREENBURG, M L Brodys, and S A Robins Am J Surg, 1934 xxiii [530]

Gumma of the kidney, a case report J LECHNIR

Ztschr f Urol, 1933, xxii, 757

A neoplastic disease of the kidney of the frog, rana pipiens B Luckl Am J Cancer, 1934, xx, 352

The Wilms' tumor or the renal embryoma of infancy D BATEMAN Proc Roy Soc Med, Lond, 1034, XXII,

Gastro intestinal symptoms from left renal tumor Demonstration of metastases around the sympathetic nerves having renal and gastric associations. C. S. Swan

New England J Med , 1934, ccx, 345 Carcinoma of the Lidney G Simpson Brit J Surg , [530] 1934, 771, 388

Papillary carcinoma of the renal pelvis H A CHAMBER-LIN and H E MACMAHON New England J Med, 1934, CCT, 200

Renal carcinoma, pyonephrosis, solitary cyst of the kidney E J Kropp and T R LITTER Surg Clin

North 1m, 1034, viv, 203

Some new developments in renal surgery O S Lows LEY South M J, 1934 XXVII, 139

An unusual nephrectomy J C I SANCTUARY Brit M J, 1934, 1 284

Floating interurcteral ridge F Sevinte Rev de cirug de Barcelona, 1933, iii, 69

Report on a case and specimen of double ureteroccle with dilated ureters and early hydronephrosis T S Keith and S \ Owin Proc Roy Soc Med, Lond, 1934. 13111, 415

The part placed by ureteral inflammation in dilatation of the ureter, a postmortem study D E Scorr Arch

Surg , 1934, XXVIII, 296

Therapeutic indications in bilateral uncteral stone H D Source Rev urol de S Paulo 1933 1, 155

Primary carcinoma of the ureter W W Scorr Surg. Gynec & Obst., 1934, lvm, 215

The technique of implantation of the ureters into the bowel M G BREITMINN At-chr f urol Clir, 1933. 7.77VII, 424

Ureteral transplantation to the rectosigmoid for exstrophy of the bladder, complete epispadias and other unothril abnormalities W Walters and W F Brisch In J burg , 1034, xxiii, 255

#### Bladder, Urethra, and Penis

Introperitoneal traumatic rupture of the unitary bladder S Lucina Deutsche Zische f genichtl Med, 1055 ., 1 1177

The surgical treatment of ectopia of the bladder. Of the

Lentralbl f Chir 1052 p 220.

Urography as a guide to sure cal indications of dispr ticula of the crimary pladder R. H. Herrist J. 121 11 lec , 1014 CH 185 1530

The rangement of blacker di erteule J L Gie and C. I. Billion J. Miss. 27 State M. 155, 10. XXX1, 43

D e se of the neck of the bl dd MARINESCU R de hir Bucharest 1933 xxxvi 5 %

B lhar asis c lcul in th bl dder nd the d el pm t
of rinary calculi A Diamants J d ol méd et ch r 933 TXVI 551 Simpl ule of the bladd F KLIEBE STEEN 193 Col gne D ssertation Sympo tum n lm tum s of the bl dd R S PERGUSON G II GEHRMANN D M GAY and L M NDE ON J U ol 034 xxx 1 1 5 137 148 The teatment fanl et mors of the un ary bl dder V D Washburg J U ol 934 xxx 55 [531] F year s lt f p apubor du m mplantat n int bladde t m s E L Kryes S g 934 i 33 Two c ses f carcin m f th um ry bl dd Douglas Brit. J Rad 1 1934 vi 7 Ueth graphy \ Horrotomer ad T karz Cala 21 Id ol med et h 933 xtxv1 437 The cents n vis abint n of the post nor with R. H Flocks J U ! 1933 xt 711 [53 [531] The tr tment f ruptu e of the u thra A GRIDNEY Ztschr f ur i Chr 933 xxx 1 Miliary tuberculosis aft so ding f a tube cul us strict r f th ethra W Molle 1 tachirurg Sc d 1934 kru 5 [531] Tans thrals gry J R Cauta urg Gyn &

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Med Welt, 1933 p 327
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Chir 013 p 369

Ps r nic esteemyelitis of the sacro-iliac joint, J KULO L Am J Surg 1934 Xtu 3 5 Oste my litis of the ili m C F Bangter Arch, Sure 1911 XX 11 83

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#### Orthopedics in Gen ral

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[545]

The treatment of circulatory disturbances of the lower limbs E ROVIRALTA Arch de med, cirug y especial, 1933, viv, 1194 Thrombosis,

embolism, and their treatment

BANKOFF Brit M J , 1934, 1, 189

Pre gangrenous arteriosclerotic and thrombo angutic ischæmia, control of pain therein F L REICHERT California & West Med , 1934, xl, 81

Thrombo angutis obliterans, Buerger's disease G E

Brown Surg, Gynec & Obst, 1934, Ivin, 297

Gangrene due to thrombo angutis obliterans, further experiences with treatment S S SAMUELS I Am M Ass , 1034, cn, 436

#### Blood, Transfusion

Hæmorrhagic diathesis in hæmorrhagic purpura (Werlhoff's disease and its independence of the number of blood platelets and of bleeding time) A LANDAU and W HEIMAN Presse med, Par, 1934, vlu, 174

The nature of delayed blood clotting in icterus due to asis A Barlik Arch f klin Chir, 1933, claxvi, stasis

252

Autohæmo agglutination D LEINBURG Ukrain Zentralbl f Blutgruppenforsch u Bluttrans, 1932, vi, 104 Blood transfusion in theory and in practice H WILDE-

GANS 1933 Berlin, Springer
The transfusion of blood in the case of the child A

Muggia Riforma med, 1933, xlix, 1812

Blood transfusion in surgical practice S GEINATZ Ukrain Zentralbl f Blutgruppenforsch u Bluttrans, 1932, VI, 72

The results and experiences in 500 blood transfusions T Schuerer-Waldheim Deutsche Ztschr f Chir, 1933, [546] ccxl1, 332

Complications during and following blood transfusion Ukrain Zentralbl f Blutgruppenforsch u Bluttrans , 1032, v1, 93

#### Reticulo-Endothelial System

Studies on the function of the reticulo-endothelial system, with particular reference to its relationship to the glands of internal secretion I The effect of ovarian function on the resorption of dies S Uchino Nagasaki Igakkwai Zassi, 1933, vi, 1013

Tumor of the liver and tumor of the parotid region of reticulo-endothelial nature ACHARD, POUMAILLOUX, and

ISIDOR Ann d'anat path, 1934, VI, 85

#### Lymph Glands and Lymphatic Vessels

Rupture of the thoracic duct I F Scott Northwest

Med , 1934, xxxiii, 50

Chronic leukæmia with monocytes and cutaneous manifestations R J WEISSENBACH Bull et mém Soc méd d hop de Par, 1933, xlix, 1658

The treatment of tuberculosis of the lymph nodes KINGREEN Ztschr f aerztl Fortbild, 1933, xxx, 545 Cavernous lymphangioma of the deltoid and scapular

region Petridis Ann d'anat path, 1933, x, 1207

Lympho-epithelial tumors, with particular reference to their occurrence in the cervical nodes K Schiller 1932 Hamburg, Dissertation

The co-existence of tuberculoid and sarcomatoid lesions in a subacute affection of the lymph glands Chastener DE GERY and FOULON Ann d'anat. path, 1934, vi, 82

Hodgkin's disease occurring simultaneously in two brothers G J McHeffey and R F Peterson J Am M Ass. 1034, CH, 521

## SURGICAL TECHNIQUE

#### Operative Surgery and Technique, Postoperative Treatment

Bipolar electric surgery Guleke Chirurg, 1933, v,

Regulation of the action of the adrenals during operations G ZSEDENYI Orvoskepzes, 1933, XXIII, 275

Jejunal alimentation, technique, accidents, indications, and contra indications T MARTINI and R E CURUTCHET Semana med , 1934, xlı, 46

Autopyotherapy of tuberculous abscess I ANILIN

Borjba s Tbk , 1932, 1x/x, 876

A proposed blood sparing operative treatment for hemangioma R DEMEL Deutsche Ztschr f Chir, 1933, ccxlı, 166

Continuous intravenous infusion R STAHL Zentralbl f Chir, 1933, p 2154

Agunst drainage

D KULENKAMPFF Zentralbl f Chir, 1933, p 2252

The treatment of postoperative vomiting B CHROMOV Vrač Delo, 1932, vv, 1032

The prevention of thrombosis and embolism K BOSHA-MER Zentralbl f Chir, 1933, p 2506

Postoperative pulmonary atelectasis L L ELIASON and C W McLiughlin, Jr Surg Clin North Am, 1934,

Massive collapse and postoperative atelectasis J M BERLMAN Minnesota Med , 1934, 7111, 85

The use of pilocarpin in postoperative urine retention M Birjukov Vestnik Chir, 1932, lxxxii/lxxxiv, 162

The cause of death of patients with organic heart disease subjected to surgical operation W K PURKS Ann Int Med , 1934, vii, 885

Nitrogen retention as an index of acidosis U Bani Policlin, Rome, 1934, Ali, sez prat 51

Postoperative nitrogen retention and the use of hypertonic saline solution ROBINEAU Bull et mem Soc nat de chir, 1933, lix, 1539

A review of the causes of reactions following intravenous injections of glucose and normal saline K E DARROW

J -Lancet, 1934, liv, 65

Rectal administration of hypertonic salt solutions and its effect in the postoperative period I I GENKIN and R \ MILJAWSKAJA Arch f klin Chir, 1933, clxxvi, 156

The effect of intravenous injection of 20 per cent solution of sodium citrate on postoperative intestinal obstruction

J Bottin Presse med , Par , 1934, vlu, 87

Basic, functional disturbances in the presence of lowered resistance following surgical operations on the pelvic organs F F Nikisi Rozhledy Chir a Gynaek C chir , 1933, 711, 9

Physical therapy in postoperative reconstruction surgery

W BIERMAN Im J Surg, 1934, VXIII 314
The treatment of postoperative ileus R. MEYER-WILDISEN Zentralbl f Chir, 1933, p 1890
Experimental studies on wound healing and an acid diet C Reimers and H Winkler Deutsche Ztschr f Chir, 1933, ccxli, 313

Tubed pedicle flap for scar contraction C I NASSAL

Surg Chn North Am, 1934, tiv, 13

The Z-pla t c o web-splitting on rate ) for the relief f scar contractures of the e trem ties H T Jones Surg Gynec. & Obst 1934 1 11 178

The effect of the radio knife a w and healing A F SPELMAN LTR. J Surg 1934 nn 364

#### Antiseptic Surgery Treatment of Bounds and Infections

Industrial med in and traumatic survery T A BESLEY Surg Gynec & Ob t 1934 1 1 49 Will distrial m d me and traumatic su pery ha e a pl ce in th n t onal industrial r covery act? F H MAR

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#### Anæsthesia

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Divind ether, experimental and clinical studies S.

Goldschupt, I. S. Rivnix, B. Lucri, G. P. Mullir, and Johnson, J. M. M. 188, 1931, Ch. 21 th ser chir i Jentralbl f Chur, 1933, p 1041 General arrethesis with ethyl chloride for operations of long duration 1 / W.L. Gre med de Mexico, 10339 Time shock factors in general and sthesia W \ Kimp lni, 481 Cinig y cirujino, 1933, P 203 The technique of recording the effects of his oxygen nitures pressures, rebreathing and carbon dioxide, with a summary of the effects L I Mckesson has & \nal, \text{102} \text{102} \text{102} 1m J Sur, 103-1, xxIII, 280 General anasthesia by the intravenous method A I Strateguard Number Seman med 1934, xh 175 Urvockepzes, 1934, 1011, 1 Intravenous anathesia HOLTERMIN C Intravenous avertin anasthesia A new intravenous anisethetic, cuprin sodium G H 1933, XXIII, 51

Schmerz, 1933, VI, 4

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Spinal and others technique, records, and results I II 1035, 11 1142

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Investigations on the changes in the spinal fluid after

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Convert and motor disturbances in spinal anasthesia M Jison Deutsche Ascht f Chir, 1933, ccsh, 1 Delo 1052 \\ 102

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Surgical Instruments and Apparatus co methods of sterilization in surgery

The sterilization of surficed instruments I L Wit (1871) Med Klin, 1955 II 1351

Hosp 11d, 1953, P 57
Studies on the possibility of formaldehyde sterilization instruments 1 Hyrotre 1033 Fuebingen, Dissert 1053 Fuebingen, Dissert 10 Hosp Tid , 19,3, P 57

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1034, ccx 423
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1033, Fren / Exxv., 59

# FITZGERALD Indian M Gaz, 1934, lax, 67 Intravenous arresthesia with evipan sodium P Scroe

The relation of the American College of Radiology to the future of radiology A Soiland Am J Roentgenol,

1934, XXI, 104
A 300 N direct current generator using continuously
evacuated rectifiers T L ALLIBONE, A Bretlestone,
and G S INVES Brit J Radiol, 1934, VII, 83
The officiency of New Stereoscony as influenced by the 1934, XXX1, 164

The efficiency of X ray stereoscopy as influenced by the method of trib of the tube P M Andrus and A HAMBLE-

PHYSICOCHEMICAL METHODS IN SURGERY On the function of roentgenology in surgery, Arch uruguayos de med, cirug y especial, Soft tissue ridiography J R CARTY New

The relative value of stereoscopic and single M , 1934, TATIL, NO. 4 routine examination of the chest RIGLER Radiology, 1934, XXII, 236 The use of chest roentgenograms tal en wit

held in expiration L Kopol and H A S Roentgenol, 1934, XXII, 266

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Pilonidal cyst or sinus, with a report of forty cases H

R OWEN Surg Clin North Am, 1034, NV, 117 Ochronosis O Bouer Ugesk f Læger, 1933, p 1064 Diagnostic errors in sacral dermoids D LISENALAM

lien klin Wchnschr , 1033, 11, 913
Presacral dermoids F H Lahey and E B Eckerson

Am J Surg , 1934, XXIII, 30

The treatment of advancing, postoperative necrosis of the skin with electrocoagulation TAXMANN Zentralbl f Chir, 1933, p 2469

Focal necrotic and suppurative dermatitis and osteopenostitis of typhoid origin C COSTANZI Policlin

Rome, 1934, xlı, sez med 38

Generalized cysticercus Thalheimer Bull et mem

Soc nat de chir, 1933, hr, 1543

Severe purpura with gangrene of the lower extremity following scarlet fever, recovery after amputation G Dick, E M Millep, and H Edmondson Am J Dis Child, 1034, xlvn, 374

Certain surgical complications of schistosomiasis japnica

H L CHUNG Chinese M J, 1933, Avii, 1171
Notes on the treatment of oriental sore with berberineacid sulphate R CHATTERJEE Indian M Gaz, 1934,

Agranulocytosis F H LAMB J Iowa State M Soc,

1934, TXIV, 75

Granulocytopænia, a report of two cases P Zinninger J Am M Ass, 1934, cu, 518

Lipogranulomatosis or oily cysts F Ditsch 1932

Erlangen, Dissertation

The treatment of trophic ulcer I FERDMANN Vestnik

Chir, 1932, lxxxii/lxxxiv, 62

Two rare echinococcus cysts, cyst of the pancreas, cyst of the neck Moskorr Bull et mém Soc nat de chir, 1934, lx, 62

The method of development of true tumors \( \Gamma \) ORTHNER

Deutsche Ztschr f Chir, 1933, ccxli, 303

Parasites and tumor growth R HOEPPLI Chinese M

J , 1933, xlv11, 1075

Nodules or tumors in subcutaneous and other tissues due to cysticercus cellulosae K Y CH'IN Chinese M J, 1933, xlvn, 1181

The development of multiple tumors in tarred and radiated animals M C REINHARD and A A THIBAU-

DEAU Am J Cancer, 1934, xx, 380

Generalized angiomatosis (telangiectasia) J F Man-DEN J Am M Ass, 1934, cu, 442

Arsenical Leratoses and epitheliomata G McNeer Ann Surg , 1934, xcix, 348

The early clinical diagnosis of malignant tumors A MELNIKOV Vrač Delo, 1932, xv, 17

A new method for the microscopic diagnosis of malignant tumors B DUBINSKAJ Vrač Delo, 1932, TV, 591

The simultaneous occurrence of malignancy and tuberculosis A 1 Thibaudeau Am. J Cancer, 1934, vv, 408 Malignant melanomata arising in moles A report of fifty cases T BUTTERWORTH and J V KLAUDER

1m M Ass, 1034, cu, 739

Primary malignant tumors of the foot, a report of thirty seven cases B F Schreiner and W H Wehr [556]

Radiology, 1933, vvi, 513 [556]
Cancer J Lung Minnesota Med , 1934, vvi, 53
Cell constitution and cancer L C Strong Internat

J Med & Surg , 1934, vlvn, 51 Curcinogenesis—a line of research M Bennosche Virginia M Month, 1934, le 671

Site predisposition to cancer R D Welght Med I Australia, 1954-1, 99

Experiment il production of cancer by dust from tarred roids J & Campbell I ancet, 1934, ccxxvi, 233

Has the cancer cell any differential characteristics? W C MACCARTY and E HAUMEDER Am I Cancer, 1034. VX. 403

A group of cancer cases from private practice A R

KILGORE Surg, Gynec & Obst, 1934, lviii, 434

Squamous-cell carcinoma of the skin B F SCHREINER [556] Am 7 Cancer, 1933, xix, 829 Erysipeloid carcinoma of the skin N MIPILSCENEO [556] Vestnik Chir. 1033, lxxvv/lxxxvi, 103

Multiple primary cancer as observed at the State Institute for the Study of Malignant Disease B F SCHREINER

and W H WEHR Am J Cancer, 1934, XX, 418

The prevention of cancer W CRAMER Lancet, 1934 [556) ccxxvi. I The prevention of mineral-oil and tar dermatitis, and cancer C C Tworr and I M Tworr Lancet, 1934,

ccxxv1, 286 Disease prevention and the control of cancer W D

STOVALL Wisconsin M J, 1934, XXIII, 119

Cancer as an arrestable disease C A DUKES Surg. Gynec & Obst , 1934, lviu, 426

The curability of cancer F H MIRTIN Surg, Gynec

& Obst , 1934, Ivii, 425

Principles involved in the treatment of carcinoma affecting organs located in the male and female pelvis R C COFFEY Am J Surg, 1934, XXIII, 1

A study of 432 cases of cancer on a general surgical service between 1916 and 1926 E H Pool and J \ VIETLR Surg, Gynec & Obst, 1934, lvin, 436

The results in 100 traced cases of cancer D B PFEIFFER

Surg , Gynec & Obst , 1934, lvm, 435

The later history of 836 patients operated upon for cancer E KUBANYI Orvoskepzes, 1933, VIII, 23

Five-year cancer cures in the South T K BOLAND Surg , Gynec & Obst , 1934, Iviu, 427

Five-year cures in cancer J J GALLIGAN Surg, Gynec & Obst , 1934, lviu, 428

Five-year cancer cures I ABELL Surg, Gynec &

Obst., 1934, lvin, 430
Sarcoma and trauma C RAMM Monatsschr f

Krebsbekampfg, 1933, 1, 357

Sarcomatoid fibroma of the skin P E McMaster

Ann Surg , 1934, vcix, 338 Sarcoma in the Leipzig Surgical Clinic during the years 1920 to 1931, with particular reference to traumatic origin H WENDLER 1933 Leipzig Dissertation

The alkaline reserve and its significance in surgery P Scrocca Rassegna internaz di clin et terap, 1933, VIV,

#### General Bacterial, Protozoan, and Parasitic Infections

Infections of the blood stream R M Wille West Virginia M J, 1934 XXX, 49

Staphylococcus bacteræmia, report of a case with recovery W M GILBERT Colorado Med , 1934, 7771, 66

#### **Ductless Glands**

Handbook of internal secretions. A general treatise on the anatomy, physiology, and pathology of the endocrine glands M Hirsch 1033 Leipzig, Kabitzsch Lindocrine studies XLII A note on acromegaly with the report of a case A W Rowe and H MOFILMER Endo-

crmology, 1934, xviii 20

Some endocrine observations on advanced ossification in children W A REILLY Endocrinology, 1034, xviii 117 Syphilis and the endocrine glands V Bruxelles mid. 1934 xiv, 395

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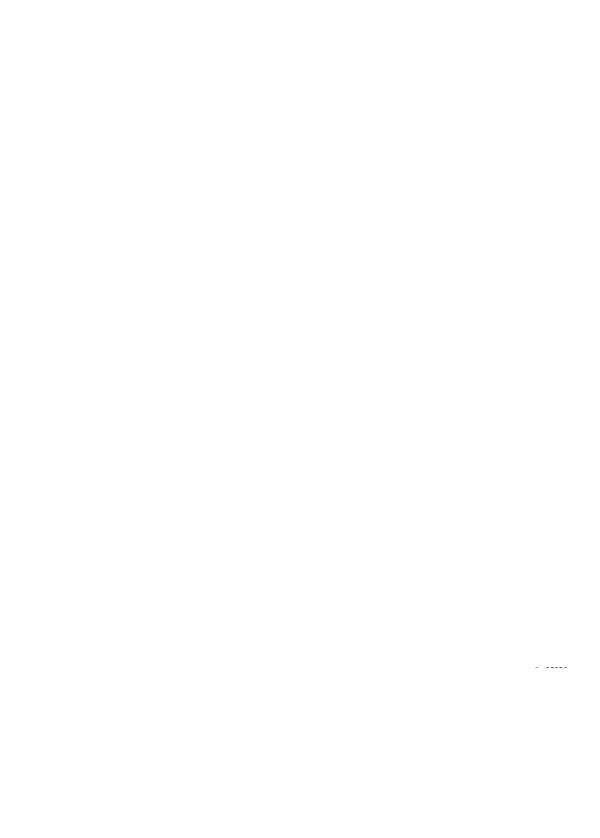
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